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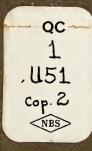
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HANDBOOK 28 (1957)

1963 SUPPLEMENT













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U.S. DEPARTMENT OF COMMERCE
NATIONAL BUREAU OF STANDARDS

1963 SUPPLEMENT TO SCREW-THREAD STANDARDS FOR FEDERAL SERVICES

1963 SUPPLEMENT TO HANDBOOK H28 (1957)

THE NATIONAL BUREAU OF STANDARDS

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The functions of the National Bureau of Standards are set forth in the Act of Congress, March 3, 1901, as amended by Congress in Public Law 619, 1950. These include the development and maintenance of the national standards of measurement and the provision of means and methods for making measurements consistent with these standards; the determination of physical constants and properties of materials; the development of methods and instruments for testing materials, devices, and structures; advisory services to government agencies on scientific and technical problems; invention and development of devices to serve special needs of the Government; and the development of standard practices, codes, and specifications. The work includes basic and applied research, development, engineering, instrumentation, testing, evaluation, calibration services, and various consultation and information services. Research projects are also performed for other government agencies when the work relates to and supplements the basic program of the Bureau or when the Bureau's unique competence is required. The scope of activities is suggested by the listing of divisions and sections on the inside of the back cover.

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• LUTHER H. HODGES, Secretary A. V. ASTIN, Director

1963 SUPPLEMENT TO NATIONAL BUREAU OF STANDARDS HANDBOOK H28(1957)
PARTS I, II, & III

1963 SUPPLEMENT TO SCREW-THREAD STANDARDS FOR FEDERAL SERVICES 1957 (PARTS I, II, & III)

Prepared by direction of the Interdepartmental Screw Thread Committee



[Issued October 15, 1963]

JUN 2 1965 130,250 QC1 .U51 cop.2

Reprint Information

This Supplement specifies changes to the November 1960 Reprint of Handbook H28(1957), Part I (which is identified by a block on the cover which reads "Reprinted November 1960 with corrections") and the original issues of Parts II and III. The April 1962 reprints of Parts II and III (which are identified by a block on the cover which reads "Reprinted April 1962 with corrections") include the changes shown in this Supplement except for the corrections shown for table VIII.2 of Part II and changes shown for paragraph on p. 33 of Part III. For the information of those having the original printing of Part I or the March 1958 reprint, the information relative to corrections included in the 1960 Reprint of Part I is as follows:

Reprinted with Corrections

November 1960

Pages 9, 12, 18, 20, 29, 30, 35, 51, 61, 69, 80 to 91, 99, 107, 109, 112, 117 to 119, 129, 163, 182 to 185, 187, 190, and 191 of this reprint contain corrections to the previous (March 1958) reprint. These corrections are shown by a double dagger. Single asterisks indicate corrections to the original printing as shown in the 1958 reprint. These corrections are shown on pages 39, 49, 105, 157, 183, 187, 190, and 193. On page 114, table VI.2, column 13; also the first paragraph of text, and the footnote 16 have been corrected.

The corrections on page 99 occur within the two blocks in which the daggers are placed. The corrections on pages 80 through 91 occur in the line when the daggers occur in the "number of pitches column," otherwise, the correction only pertains to the daggered value. The correction on page 107 is in the daggered line. The correction on page 109 is in the daggered paragraph. On page 112, the formula in the upper right-hand corner of figure VI.2 has been revised to read:

"
$$\frac{3}{8}H - (0.060 \sqrt[3]{p^2} + 0.017p)2$$
";

the "
 $\Rightarrow \left| \frac{p}{8} \right| \leftarrow$ "

has been deleted from the upper part of the right-hand view in figure VI.3.

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Foreword

Formerly, only those threads were identified as "Unified" which (1) had the basic Unified thread form with limits of size and tolerances based on Unified formulations, and (2) had been agreed upon as Unified by the standards bodies of Canada, the United Kingdom, and the United States.

Handbook H28(1957) is based on this.

At present, all threads are identified as "Unified" if they have the basic Unified thread form with limits of size and tolerances based on Unified formulations. The essential purpose of this Supplement is to revise the screw thread designations to conform with present practice and to include thread data for additional threads which have been added to the standard screw thread series. The revision of Handbook H28(1957), Part I, in its entirety will follow later.

This Supplement also lists changes to be made in Parts II and III.

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HEADQUARTERS DEFENSE SUPPLY AGENCY CAMERON STATION ALEXANDRIA, VIRGINIA

2 AUG 1963

Mr. I. H. Fullmer, Secretary Interdepartmental Screw Thread Committee National Bureau of Standards U. S. Department of Commerce Washington 25, D. C.

Dear Mr. Fullmer:

This is in reference to your letter of 21 February 1963, File 2.05, which forwarded, for Department of Defense signature, the approval sheet for the 1963 supplement to NBS Handbook H28 (1957), Parts I, II, and III.

For your information the Defense Supply Agency, as administrator of the Defense Standardization Program, has been designated to act on behalf of the Department of Defense in approving the Handbook.

Such approval is indicated by signature on the authentication page which is returned herewith.

Sincerely yours,

E. M. TOLLIVER

Colonel, USA

Chief, Standardization Division

E. M. Tallinin

2 Incl

1. Approval Sheet

2. Draft 1963 Revision

APPROVAL BY

THE DEPARTMENTS OF DEFENSE AND COMMERCE

The accompanying 1963 Supplement to Handbook H28(1957), Parts I, II, & III, on Screw-Thread Standards for Federal Services, submitted by the Interdepartmental Screw Thread Committee, is hereby approved for use by the Departments of Defense and Commerce.

FOR THE DEPARTMENT OF DEFENSE:

FOR THE DEPARTMENT OF COMMERCE:

Edward Talliver EDWARD TOLLIVER

Colonel, USA

Defense Supply Agency

A. V. ASTIN

Director

National Bureau of Standards



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1963 SUPPLEMENT TO SCREW-THREAD STANDARDS FOR FEDERAL SERVICES

HANDBOOK H28 (1957)

PARTS I, II, & III

PART I CHANGES

(See Reprint Information on p. II of this Supplement)

The following changes should be made in Part I:

p. 1, SECTION II. NOMENCLATURE, DEFINITIONS, AND LETTER SYMBOLS:

(Note: This section is in process of extensive revision. With reference to pars. 22 and 23, p. 5, see footnote 24, p. 102 of this Supplement.)

p. 10, 1. Introduction: Revise first sentence of first paragraph of introduction to read:

"The Unified thread standards ² constitute the basic American standards for fastening screw threads."

p. 10, 1. Introduction: Substitute the following for the last two sentences (last eight lines) of the third paragraph:

"At present, all threads are classed as Unified if they have the basic Unified thread form and have limits of size and tolerances based on the Unified formulations."

p. 12, 2. The Unified Form of Thread: Revise to read:

"2. THE UNIFIED FORM OF THREAD

"1. Basic Form of Thread.—The Unified thread form is the basis of all thread dimensions given in the standard. The formulas for its proportions are given in table III.1 in this Supplement, together with figure III.1a in this Supplement, showing the basic profile from which the design forms are derived. Both the ISO basic profile and the American (U.S.) concept of the basic Unified thread form are shown. These are essentially alike except that in the second illustration the position of the basic minor diameter provides for the long established practice in the U.S. of considering 100 percent thread height as being equal to 3H/4, measured from the basic major diameter.

(a) Angle of thread.—The basic angle of thread between the flanks of the thread, measured in an

axial plane, is 60°. The line bisecting this 60° angle is perpendicular to the axis of the screw thread.

(b) Form of crest.—The form of the crest of external threads is flat. The crest of the basic thread form of the external thread shall be truncated from the sharp crest an amount equal to H/8, where H is the depth of the fundamental triangle. The form of the crest of internal threads is flat and the crest shall be truncated from the sharp crest an amount equal to H/4.

(c) Rounded root forms.—The crest clearances allowed are such as to permit rounded root forms in both the external and internal threads. Rounded roots are required in some applications and are made by tools that are purposely rounded. Otherwise, rounded roots may be the result of tool wear.

(d) Clearance at minor diameter.—A clearance is provided at the minor diameter of the internal thread by truncating from the sharp crest an amount equal to H/4.

(e) Clearance at major diameter.—A clearance is provided at the major diameter of the internal thread by making the thread form at the root

such that its width is less than p/8.

"2. Design Form of External Thread.— The design form for an external Unified thread, i.e., the form of an external thread in its maximum material condition, shown in figure III.1 in this Supplement, is derived from the fundamental triangle. It is truncated at the major diameter to H/8. In practice, due to providing for tool crest wear at the thread roots, i.e., the minor diameter, the roots are shown as a rounded contour and cleared beyond the flat width of p/4 for the minimum minor diameter of the internal thread. Also, in practice, the crests of the external threads may be rounded within the confines established by the major diameter tolerance.

"3. Design Form of Internal Thread.— The design form for an internal Unified thread, i.e., the form of an internal thread in its maximum material condition, shown in figure III.1 in this Supplement, is derived from the fundamental triangle. It is similar to the basic form except that the truncation at the minor diameter is an

p. 11, figure III. 1: Substitute the following figure for the one now shown:

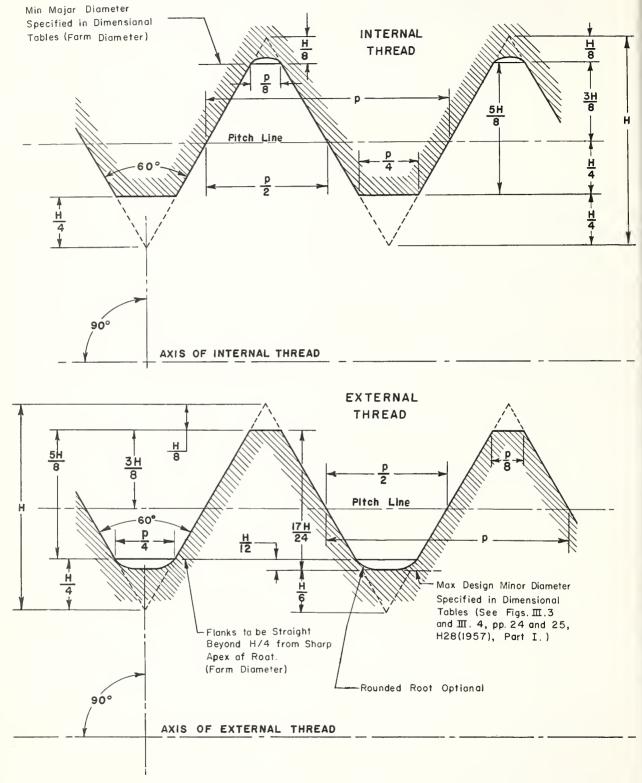
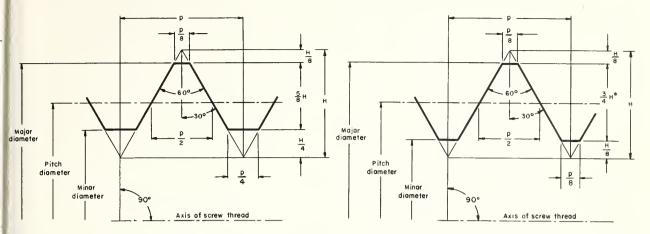


FIGURE III.1.—Unified internal and external screw thread design forms (maximum material condition).

Note.—See table III.1 in this supplement for numerical values. In practice the crests of external threads may be rounded.



ISO basic profile for inch and metric threads.

* 3H/4=100 percent thread height

American (U.S.) symmetrical thread form from which percentages of thread height are calculated.

Figure III.1a.—Basic Unified thread form; ISO basic profile and American (U.S.) symmetrical thread form

amount equal to one-quarter of the fundamental triangle height (H/4). In practice, due to providing for tool crest wear at the thread roots, i.e., the major diameter, the roots are shown as a rounded contour and cleared beyond the flat width of p/8 for the maximum major diameter of the internal thread.

"4. Illustrations.—Figure III.1 in this Supplement shows the design forms (maximum

material condition) of the external and internal threads of the Unified form of thread.

"5. Basic Thread Data.—The basic thread data for all standard pitches of the Unified form of thread are given in table III.1 in this Supplement."

pp. 13, 14, and 18; 3. Thread Series, Symbols, and Suggested Applications: Revise to read:

3. THREAD SERIES, ORDER OF SELECTION, AND SUGGESTED APPLICATIONS

"1. Thread Series Definition—Thread series are groups of diameter-pitch combinations distinguished from each other by the number of threads per inch applied to series of specific diameters. The various diameter-pitch combinations of three series with graded pitches and 8 series with constant pitches are given in table III.2 in this Supplement. The symbols for designating the various thread series are shown in table III.2 in this Supplement and succeeding tables. In table III.10 in this Supplement are given the limits of size of series in table III.2 in this Supplement, but the full range is not covered in the case of the 4UN, 6UN, and 8UN series. Omissions are the secondary sizes over 2½ in. in the 4UN series, all sizes over 5 in. in the 6UN series, and all sizes over 4 in. in the 8UN series. However, the basic dimensions for these omitted sizes are given in tables III.8a, III.8b, and III.6 in this Supplement.

"2. Order of Selection—Whenever possible, selection should be made from table III.10, Standard series limits of size—Unified screw threads, in this Supplement, preference being given to the coarse- and fine-thread series. If

threads in the standard series do not meet the requirements of design, reference should be made to the selected combinations in table IV.12 in this Supplement. The third expedient is to compute the limits of size for a special diameter-pitch combination in accordance with table IV. 13, p. 99, Part I. The fourth and last resort is calculation by formula. See section IV, Part I, for formulas.

"3. UNC, Coarse-Thread Series—This series is generally utilized for the bulk production of bolts, screws, nuts, and other general engineering applications. It is used in general applications for threading into lower tensile strength materials such as cast iron, mild steel, and softer materials to obtain the optimum resistance to stripping of the internal thread. It is applicable for rapid assembly or disassembly, or if corrosion or slight damage is possible. The basic dimensions and limits of size for this series are shown in this Supplement in tables III.3 and III.10.

¹⁴4. UNF, FINE-THREAD SERIES—This series is suitable for the production of bolts, screws, nuts, and other applications where the coarse series is not applicable. External threads of this series

Table III.1.—Thread data, Unified thread form (see fig. III.2)

Double height of cx-ternal thread,	17H/12 = 1.226868/n	18	in. 0. 01534 0. 01704 0. 01917 0. 02191 0. 02556	. 02788 . 03067 . 03408 . 03834 . 04382	. 04544 . 05112 . 06134 . 06816	. 08763 . 09437 . 10224 . 10668	. 12269 . 13632 . 15336 . 17527	. 20448 . 24537 . 27264 . 30672
Double height of in-ternal thread,	$2h_n = 5H/4 = 1.082532/n$	17	in, 0.01353 , 0.01504 , 0.01691 , 0.01933 , $0.02255+$. 02460 . 02706 . 03307 . 03383	. 04009 . 04511 . 05413 . 06014	. 07732 . 08327 . 09021 . 09413	. 10825+ . 12028 . 13532 . 15465-	. 18042 . 21651 . 24056 . 27063
Differ- ence between max. major and pitch diam- deres		16	in. 0.00992 .01103 .01240 .01418 .01654	. 01804 . 01985– . 02205+ . 02481 . 02835+	. 02940 . 03308 . 03969 . 04410	. 05670 . 06107 . 06615+ . 06903	. 07939 . 08821 . 09923 . 11341	. 13231 . 15877 . 17641 . 19846
Thread height from basic flat crest to sharp root	7H/8 = 0.757772/n	15	in. 0.00947 0.01052 0.01184 0.01353	. 01722 . 01894 . 02105— . 02368	. 02807 . 03157 . 03789 . 04210	. 05413 . 05829 . 06315— . 06589	. 07578 . 08420 . 09472 . 10825+	. 12630 . 15155+ . 16839 . 18944
(a) Twice the external thread addendum,	$\begin{array}{c} h_b = \\ 2h_{as} = \\ 3H/4 = \\ 0.649519/n \end{array}$ $\begin{array}{c} 7H/8 = \\ 0.757772/n \end{array}$	14	in. 0.008119 0.009021 0.01599 0.013532	. 014762 . 016238 . 018042 . 020297	. 024056 . 027063 . 032476 . 036084 . 040595—	. 046394 . 049963 . 054127 . 056480 . 059047	. 064952 . 072169 . 081190 . 092788	. 108253 . 129904 . 144338 . 162380
Height of external thread and max height of internal		13	in. 0.00767 0.00552 0.00958 0.01095+	. 01394 . 01534 . 01704 . 01917	. 02272 . 02556 . 03067 . 03408	. 04382 . 04719 . 05112 . 05334	. 06134 . 06816 . 07668 . 08763	. 10224 12269 . 13632
Height of internal thread and depth of thread engage-	$h_n = h_e = 5H/8 = 0.541266/n$	12	in. 0.00677 00752 00846 00967	.01230 .01353 .01504 .01691	. 02005— . 02255+ . 02706 . 03007	. 03866 . 04164 . 04511 . 04707 . 04921	. 05413 . 06014 . 06766 . 07732	. 09021 . 10825+ . 12028 . 13532
Dedendum of internal thread and adendum of external thread thread and adendum of external thread.	$h_{dn} = h_{as} = 3H/8 = 0.324759/n$	11	in. 0.00406 0.00451 0.00507 0.00580 0.00580	. 00738 . 00812 . 00902 . 01015—	. 01203 . 01353 . 01624 . 01804 . 02030	. 02320 . 02498 . 02706 . 02824 . 02952	. 03248 . 03608 . 04059 . 04639	. 05413 . 06495+ . 07217 . 08119
Adden- dum of internal thread and trunca- tion of tinternal thread crest.	0.	10	$in. \\ 0.00271 \\ 0.00301 \\ 0.00387 \\ 0.00451$. 00492 . 00541 . 00601 . 00677	. 00802 . 00902 . 01083 . 01203	. 01546 . 01665+ . 01883 . 01968	. 02165+ . 02406 . 02706 . 03093	. 03608 . 04330 . 04811 . 05413
Half adden- dum of external thread,	3II/16 = 0.162380/n	6	in, 0.00203 .00226 .00254 .00290 .00398	. 00369 . 00406 . 00451 . 00507	. 00601 . 00677 . 00812 . 00902 . 01015—	. 01160 . 01249 . 01353 . 01412 . 01476	. 01624 . 01804 . 02030 . 02320	. 02706 . 03248 . 03608 . 04059
Trunca- tion of external thread rounded root,	$g_{rs} = H/6 = 0.144338/n$	œ	in. 0.00180 . 00226 . 00258 . 00258 . 00258	. 00328 . 00361 . 00401 . 00451	. 00535— . 00601 . 00722 . 00802	. 01031 . 01110 . 01203 . 01255+ . 01312	. 01443 . 01604 . 01804 . 02062	. 02406 . 02887 . 03208
Max trunea- tion of internal thread root and external external crest.	0	2	in. 0.00135 $+$. 00169 . 00193 . 00226	. 00246 . 00271 . 00301 . 00338	. 00401 . 00451 . 00541 . 00601	. 00773 . 00833 . 00902 . 00941	. 01083 . 01203 . 01353 . 01546	. 01804 . 02165+ . 02406 . 02706
Twice min truncation of internal thread root,	$ 2f_{rn} = H/12 = 0.0721688/n $	9	in. 0.00090 0.00113 0.00129 0.00150	. 00164 . 00180 . 00200 . 00226 . 00258	. 00267 . 00301 . 00361 . 00401 . 00451	. 00515+ . 00555+ . 00601 . 00628	. 00722 . 00802 . 00902 . 01031	. 01203 . 01443 . 01604 . 01804
Height of sharp v-thread,	H=0.8660254/n	5	in_{\bullet} 0.010825+ 0.013532 0.013532 0.015465-	. 019682 . 021651 . 024056 . 027063	.032075+ .036084 .043301 .048113	. 061859 . 066617 . 072169 . 075307 . 078730	. 086603 . 096225+ . 108253 . 123718	. 144338 . 173205+ . 192450 . 216506
Flat at internal thread root and external thread external thread erest,	$F_{rn} = F_{cs} = p/8 = 0.125/n$	4	in. 0.00156 0.00174 0.00195+ 0.0023	. 00284 . 00312 . 00347 . 00391	.00463 .00521 .006250 .00694 .00781	. 00893 . 00962 . 01042 . 01087	. 01250 . 01389 . 01562 . 01786	. 02083 . 02500 . 02778 . 031250
Flat at internal thread crest,	$F_{cn} = p/4 = 0.25/n$	ಣ	in. 0.00312 0.00347 0.00391 0.00446	. 00568 . 006250 . 00694 . 00781	. 00926 . 01042 . 01250 . 01389	. 01786 . 01923 . 02083 . 02174 . 02273	. 02500 . 02778 . 031250 . 03571	. 04167 . 05000 . 05556 . 06250
Pitch,	p=1/n	2 .	in. 0. 012500 0. 013889 0. 0156250 0. 017857 0. 017857	. 022727 . 025000 . 027778 . 031250	. 037037 . 041667 . 050000 . 055556 . 062500	. 071429 . 076923 . 083333 . 086957	. 100000 . 111111 . 125009 . 142857	. 166667 . 200000 . 222222 . 250000
Threads per inch,	u	1	80 772 644 56	44 40 83 83 83 83 83	72 52 51 18 20 19 19 19 19 19 19 19 19 19 19 19 19 19	11 11 11 11 11	010	6 4 4 4 4 5

a This is taken as 100 percent thread height. It is equivalent to the "basic height" h of the original American National form.

have greater tensile stress area than comparable sizes of the coarse series. The fine series is suitable when the resistance to stripping of both external and mating internal threads equals or exceeds the tensile load carrying capacity of the externally threaded member. It is also used where the length of engagement is short, where a smaller lead angle is desired, or where the wall thickness demands a fine pitch. It may also be used for threading into lower strength materials where maximum strength of the external thread is not required; otherwise the length of engagement must be selected to meet the above required strength conditions.

Fine threads up to and including 1 inch size are suitable for screw, bolt, and nut, and other threaded fastener applications. Sizes over 1 inch may not be suitable unless the mating materials are compatible as outlined above. The basic dimensions and limits of size for this series are shown in this Supplement in tables III.4 and

III.10.

"5. UNEF, EXTRA-FINE THREAD SERIES— This series is applicable where even finer pitches of threads are desirable for short lengths of engagement and for thin-walled tubes, nuts, ferrules, or couplings. It is also generally applicable under the conditions stated above for the fine threads. The basic dimensions and limits of size for this series are shown in this Supplement in tables III.5 and III.10.

"6. UN, CONSTANT PITCH SERIES—The various constant-pitch series with 4, 6, 8, 12, 16, 20, 28, and 32 threads per inch, given in this Supplement in table III.2, offer a comprehensive range of diameter-pitch combinations for those purposes where the threads in the UNC, UNF, and UNEF series do not meet the particular requirements of The constant pitch series have apthe design. plication on parts that are repeatedly assembled and disassembled or where it might be advantageous to rethread oversize to recondition the threaded portions of the parts. Whenever a thread in a constant-pitch series also appears in the UNC, UNF, or UNEF series the symbols, tolerances, and limits of size of those standard series are applicable. When selecting threads from these constant-pitch series, preference should be given whenever possible to those tabulated in the 8-, 12-, or 16-thread series. The basic dimensions for the 4-, 6-, 20-, 28-, and 32-thread series are shown in this Supplement in tables III.8a to III.8e.

(a) 8UN, 8-thread series—The 8UN series is a uniform-pitch series for large diameters or for use as a compromise between the coarse- and finethread series. Although originally intended for high-pressure-joint bolts and nuts, it is now widely used as a substitute for the coarse-thread series for diameters larger than 1 in. The basic dimensions for this series are shown in table III.6 in this

Supplement.

(b) 12UN, 12-thread series—The 12UN series is a uniform pitch series for large diameters requiring threads of medium-fine pitch. Although originally intended for boiler practice, it is now used as a continuation of the fine-thread series for diameters larger than 1% in. The basic dimensions for this series are shown in table III.7 in this Supplement.

(c) 16UN, 16-thread series—The 16UN series is a uniform pitch series for large diameters requiring fine-pitch threads. It is suitable for adjusting collars and retaining nuts, and also serves as a continuation of the extra-fine-thread series for diameters larger than $1\frac{11}{16}$ (1.6875) in. dimensions for this series are shown in table III.8

in this Supplement.

"7. HIGH-TEMPERATURE, HIGH-STRENGTH AP-PLICATIONS—For these applications the coarsethread series is recommended in sizes from \% to 1 in, and the 8-thread series in sizes over 1 in. Limits of size are given in table III.10 in this Supplement. Some high-temperature applications involving special physical characteristics or conditions may require modification of thread dimensions. See first full paragraph in second column of p. 23, Part I and (e) Method of designating threads having modified crests, p. 19 in this Supplement.

"8. Selected Combinations Thread data are tabulated in table IV.12, p. 92 in this Supplement for some selected combinations of diameter and pitch of Unified special screw threads, designated UNS, with pitch diameter tolerances based on a length of thread engagement of 9 times the pitch. The pitch diameter limits are applicable to a length of engagement of from 5 to 15 times the pitch. (This should not be confused with the length of thread on mating parts, as it may exceed the length of engagement by a considerable amount.)

"9. FINE THREADS FOR THIN-WALL TUBING— The limits of size for a 27-thread series, ranging from ¼ to 1 in. nominal size, are included in table IV.12, p. 92 in this Supplement. These threads are recommended for general use on thin-wall tubing. For more detailed information see part II of Handbook H28 (par. 7, page 11 of the 1957

issue).

"10. THREADS OF SPECIAL DIAMETERS, PITCHES, AND LENGTHS OF ENGAGEMENT.—For information on special threads, see section IV, page 74, Part I of H28 (1957). (For changes made in section IV by this Supplement, see pp. 91–96.)"

pp. 15-20: Delete tables III.2 to III.9, inclusive. Add tables III.2, III.3, III.4, III.5, III.6, III.7, III.8, III.8a, III.8b, III.8c, III.8d, III.8e, and III.9, which follow.

(Next text on p. 16.)

		a	a			LE III.2.			reads per i						
N	omin	nal size	Nom- inal size and basic major di-	Series w	rith graded	pitches			Ser	ies with co	nstant pite	hes			Nomi- nal size
Prim	ary	Second- ary	ameter	Coarse UNC	Fine UNF	Extra fine UNEF	4UN	6UN	8UN	12UN	16UN	20UN	28UN	32UN	3120
1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
No. 0 2 4	in.	No. in. 1 3	in. . 060 . 073 . 086 . 099 . 112	64 56 48 40	80 72 64 56 48										No. in. 0 1 2 3 4
5 6 8 10		12	. 125 . 138 . 164 . 190 . 216	40 32 32 24 24	44 40 36 32 28	32							UNF	UNC UNC UNF UNEF	5 6 8 10 12
	1/4 5/16 3/8 7/16		. 250 . 3125 . 375 . 4375	20 18 16 14	28 24 24 20	32 32 32 28					UNC 16	UNC 20 20 UNF	UNF 28 28 UNEF	UNEF UNEF UNEF 32	1/4 5/16 3/8 7/16
	1/2 9/16 5/8	¹ ½16	. 500 . 5625 . 625 . 6875	13 12 11	20 18 18	28 24 24 24 24				UNC 12 12	16 16 16 16	UNF 20 20 20	UNEF 28 28 28	32 32 32 32 32	1/2 9/18 5/8 1/16
	3/4 7/8	13/16 15/16	. 875	10 9	16 14	20 20 20 20 20				12 12 12 12	UNF 16 16 16	UNEF UNEF UNEF UNEF	28 28 28 28 28	32 32 32 32 32	34 13/16 7/8 15/16
	1 1½8	1½6 1¾6	1. 000 1. 0625 1. 125 1. 1875	8 7	12 12	20 18 18 18			UNC 8 8 8	UNF 12 UNF 12	16 16 16 16	UNEF 20 20 20 20	28 28 28 28 28	32	1 1½6 1½8 1¾8
	1¾ 1¾ 1¾	15/16 17/16	1. 250 1. 3125 1. 375 1. 4375	7 6	12 12	18 18 18 18		UNC	8 8 8 8	UNF 12 UNF 12	16 16 16 16	20 20 20 20 20	28 28 28 28 28		114 15/16 13/8 17/16
	1½ 158	1916 111/16	1. 500 1. 5625 1. 625 1. 6875	6	12	18 18 18 18		UNC 6 6 6	8 8 8 8	UNF 12 12 12 12	16 16 16 16	20 20 20 20 20	28		1½ 1%6 158 1116
	1¾ 1¾	1 ¹³ / ₁₆	1.875	5				6 6 6 6	8 8 8 8	12 12 12 12	16 16 16 16	20 20 20 20 20			134 113/16 17/8 115/16
	2 2¼	21/8 23/8	2.000 2.125 2.250 2.375	4½ 4½				6 6 6	8 8 8 8	12 12 12 12	16 16 16 16	20 20 20 20 20			2 21/8 21/4 23/8
	2½ 2¾	25/8 27/8	2. 500 2. 625 2. 750 2. 875	4			UNC 4 UNC 4	6 6 6	8 8 8 8	12 12 12 12 12	16 16 16 16	20 20 20 20 20			21/2 25/8 23/4 27/8
	3 3¼	3½ 3¾	3. 000 3. 125 3. 250 3. 375	4		-	UNC 4 UNC 4	6 6 6	8 8 8 8	12 12 12 12	16 16 16 16	20			3 3½ 3¼ 3¼ 3¾
	3½ 3¾	35% 37%	3, 500 3, 625 3, 750 3, 875	4			UNC 4 UNC 4	6 6 6	8 8 8 8	12 12 12 12	16 16 16 16		1		3½ 358 3¾ 378
	4 1/4	41/8 43/8	4. 000 4. 125 4. 250 4. 375	4			UNC 4 4 4 4	6 6 6	8 8 8 8	12 12 12 12 12	16 16 16 16				4 41/8 41/4 43/8
	4½ 4¾	45/8 47/8	4. 500 4. 625 4. 750 4. 875				4 4 4 4	6 6 6 6	8 8 8 8	12 12 12 12 12	16 16 16 16				4½ 458 4¾ 47/8
	5 51/4	51/8 53/8	5. 000 5. 125 5. 250 5. 375				4 4 4 4	6 6 6 6	8 8 8 8	12 12 12 12 12	16 16 16 16				5 51/8 51/4 53/8
	5½ 5¾ 6	55% 57%	5, 500 5, 625 5, 750 5, 875 6, 000				4 4 4 4 4	6 6 6 6	8 8 8 8 8	12 12 12 12 12 12	16 16 16 16 16				5½ 558 534 578 6

^a Number of fractional nominal sizes are given in cols. 1, 2, and 15. Decimal nominal sizes are given in col. 3.

Table III.3.—Coarse thread series, basic dimensions, UNC

								, 02.0		
Det	Nomin	al size	Nominal size and basic major diameter,	Threads per inch,	Basic pitch diameter, E	Minor diameter, external threads, K _s	Minor diameter, internal threads, K_n	Lead angle at basic pitch diameter,	Sectional area at minor diameter at D-2h _b	Tensile stress barea, $\pi \left(\frac{E}{2} - \frac{3H}{16}\right)^{2}$
Pri	mary	Secondary								
	1	2	3	4	5	6	7	8	9	10
No. 2	in.	No. 1 3	$in. \\ .073 \\ .086 \\ .099 \\ .112$	64 56 48 40	in. 0. 0629 . 0744 . 0855 . 0958	in. 0. 0538 . 0641 . 0734 . 0813	in. 0. 0561 . 0667 . 0764 . 0849	deg min 4 31 4 22 4 26 4 45	in. ² 0. 00218 0. 00310 00406 00496	in. ² 0. 00263 0. 00370 00487 00604
5 6 8 10		12	. 125 . 138 . 164 . 190 . 216	40 32 32 32 24 24	. 1088 . 1177 . 1437 . 1629 . 1889	. 0943 . 0997 . 1257 . 1389 . 1649	. 0979 . 1042 . 1302 . 1449 . 1709	4 11 4 50 3 58 4 39 4 1	$\begin{array}{c} .\ 00672 \\ .\ 00745 \\ .\ 01196 \\ .\ 01450 \\ .\ 0206 \end{array}$. 00796 . 00909 . 0140 . 0175 . 0242
	1/4 5/16 3/8 7/16		. 250 . 3125 . 375 . 4375	20 18 16 14	. 2175 . 2764 . 3344 . 3911	. 1887 . 2443 . 2983 . 3499	. 1959 . 2524 . 3073 . 3602	$\begin{array}{cccc} 4 & & 11 \\ 3 & & 40 \\ 3 & & 24 \\ 3 & & 20 \end{array}$. 0269 . 0454 . 0678 . 0933	. 0318 . 0524 . 0775 . 1063
	1/2 9/16 5/8 3/4 7/8		. 500 . 5625 . 625 . 750 . 875	13 12 11 10 9	. 4500 . 5084 . 5660 . 6850 . 8028	. 4056 . 4603 . 5135 . 6273 . 7387	. 4167 . 4723 . 5266 . 6417 . 7547	$\begin{array}{cccc} 3 & & 7 \\ 2 & & 59 \\ 2 & & 56 \\ 2 & & 40 \\ 2 & & 31 \end{array}$. 1257 . 162 . 202 . 302 . 419	. 1419 . 182 . 226 . 334 . 462
	1 1½ 1¼ 1¼ 1¾ 1½		1, 000 1, 125 1, 250 1, 375 1, 500	8 7 7 6 6	. 9188 1. 0322 1. 1572 1. 2667 1. 3917	. 8466 . 9497 1. 0747 1. 1705 1. 2955	. 8647 . 9704 1. 0954 1. 1946 1. 3196	2 29 2 31 2 15 2 24 2 11	. 551 . 693 . 890 1. 054 1. 294	. 606 . 763 . 969 1. 155 1. 405
	$1\frac{3}{4}$ 2 $2\frac{1}{4}$ $2\frac{1}{2}$ $2\frac{3}{4}$		1.750 2.000 2.250 2.500 2.750	5 4½ 4½ 4 4 4	1. 6201 1. 8557 2. 1057 2. 3376 2. 5876	1. 5046 1. 7274 1. 9774 2. 1933 2. 4433	1. 5335 1. 7594 2. 0094 2. 2294 2. 4794	2 15 2 11 1 55 1 57 1 46	1. 74 2. 30 3. 02 3. 72 4. 62	1. 90 2. 50 3. 25 4. 00 4. 93
	3 3½ 3½ 3¾ 4		3. 000 3. 250 3. 500 3. 750 4. 000	4 4 4 4 4	2. 8376 3. 0876 3. 3376 3. 5876 3. 8376	2. 6933 2. 9433 3. 1933 3. 4433 3. 6933	2. 7294 2. 9794 3. 2294 3. 4794 3. 7284	$\begin{array}{ccc} 1 & 36 \\ 1 & 29 \\ 1 & 22 \\ 1 & 16 \\ 1 & 11 \end{array}$	5. 62 6. 72 7. 92 9. 21 10. 61	5. 97 7. 10 8. 33 9. 66 11. 08

Table III.4.—Fine thread series, basic dimensions, UNF

Non	ainal size	Nominal size and basic major diameter,	Threads per inch,	Basic pitch diameter,	Minor diameter, external threads, K_s	$Minor$ diameter, internal threads, K_n	Lead angle at basic pitch diameter,	Sectional area at minor diameter at D-2h	Tensile stress carea,
Primary	Secondary	D diameter,	n	E	timeads, As	threads, An	λ	D-2n5	$\pi\left(\frac{\pi}{2}-\frac{\pi}{16}\right)$
1	2	3	4	5	6	7	8	9	10
No. in 2 4	No. 1 3	in. . 060 . 073 . 086 . 099 . 112	80 72 64 56 48	in. 0.0519 0.0640 0.0759 0.0874 0.0985	in. 0.0447 .0560 .0668 .0771 .0864	in. 0. 0465 . 0580 . 0691 . 0797 . 0894	$\begin{array}{cccc} deg & min \\ 4 & 23 \\ 3 & 57 \\ 3 & 45 \\ 3 & 43 \\ 3 & 51 \\ \end{array}$	in.² 0.00151 0.0237 0.0339 0.0451 0.0566	in. ² 0.00180 0.00278 0.00394 0.00523 0.00661
5 6 8 10	12	. 125 . 138 . 164 . 190 . 216	44 40 36 32 28	. 1102 . 1218 . 1460 . 1697 . 1928	. 0971 . 1073 . 1299 . 1517 . 1722	. 1004 . 1109 . 1339 . 1562 . 1773	3 45 3 44 3 28 3 21 3 22	. 00716 . 00874 . 01285 . 0175 . 0226	. 00830 . 01015 . 01474 . 0200 . 0258
1/4 5/16 3/8 7/16	1.0	. 250 . 3125 . 375 . 4375	28 24 24 20	. 2268 . 2854 . 3479 . 4050	. 2062 . 2614 . 3239 . 3762	. 2113 . 2674 . 3299 . 3834	2 52 2 40 2 11 2 15	. 0326 . 0524 . 0809 . 1090	. 0364 . 0580 . 0878 . 1187
1/2 9/16 5/8 3/4 7/8		. 500 . 5625 . 625 . 750 . 875	20 18 18 16 14	. 4675 . 5264 . 5889 . 7094 . 8286	. 4387 . 4943 . 5568 . 6733 . 7874	. 4459 . 5024 . 5649 . 6823 . 7977	1 57 1 55 1 43 1 36 1 34	. 1486 . 189 . 240 . 351 . 480	. 1599 . 203 . 256 . 373 . 509
1 11/8 11/4 13/8 11/2		1. 000 1. 125 1. 250 1. 375 1. 500	12 12 12 12 12 12	. 9459 1. 0709 1. 1959 1. 3209 1. 4459	. 8978 1. 0228 1. 1478 1. 2728 1. 3978	. 9098 1. 0348 1. 1598 1. 2848 1. 4098	1 36 1 25 1 16 1 9 1 3	. 625 . 812 1. 024 1. 260 1. 521	. 663 . 856 1. 073 1. 315 1. 581

[•] For sizes larger than 1½ in., use the 12-thread series. See table III.7 in this Supplement.
• Design form. See fig. III.1, p. 2 in this Supplement.
• See formula under definition of tensile stress area on p. 102 in this Supplement.

Design form. See fig. III.1, p. 2 in this Supplement.
 See formula under definition of tensile stress area on p. 102 in this Supplement.

Table III.5.—Extra-fine thread series, basic dimensions, UNEF

Nomi	nal size	Nominal size and basic	Threads per	Basic pitch	Minor diameter,	Minor diameter,	Lead angle :	at minor	Tensile stress
Primary	Secondary	major di- ameter, D	inch,	diameter, E	external threads, K_s	internal threads, K_n	diameter, λ	diameter at $D-2h_b$	$\pi \left(\frac{E}{2} - \frac{3H}{16}\right)^2$
1	2	3	4	5	6	7	8	9	10
in. 14 516 38 716	No. in. 12	in. 216 250 3125 375 4375	32 32 32 32 32 32 28	in. 0. 1957 2297 2922 3547 4143	in. 0.1777 .2117 .2742 .3367 .3937	in. 0. 1822 2162 2787 3412 3988	deg min 2 55 2 29 1 57 1 36 1 34	in. ² 0.0242 0.0344 0.0581 0.0878 0.1201	$in.^2$ 0.0270 0.0379 0.0625 0.0932 0.1274
1/2 9 1/6 5/8	11/16	. 500 . 5625 . 625 . 6875	28 24 24 24	. 4768 . 5354 . 5979 . 6604	. 4562 . 5114 . 5739 . 6364	. 4613 . 5174 . 5799 . 6424	1 22 1 25 1 16 1 9	. 162 . 203 . 256 . 315	. 170 . 214 . 268 . 329
34 76	13í6 15í6	. 750 . 8125 . 875 . 9375	20 20 20 20 20	. 7175 . 7800 . 8425 . 9050	. 6887 . 7512 . 8137 . 8762	. 6959 . 7584 . 8209 . 8834	1 16 1 10 1 5 1 0	. 369 . 439 . 515 . 598	. 386 . 458 . 536 . 620
1 118	1½16 1³16	1. 000 1. 0625 1. 125 1. 1875	20 18 18 18	. 9675 1. 0264 1. 0889 1. 1514	. 9387 . 9943 1. 0568 1. 1193	. 9459 1. 0024 1. 0649 1. 1274	0 57 0 59 0 56 0 53	. 687 . 770 . 871 . 977	. 711 . 799 . 901 1. 009
1½4 13%	1516 1716	1. 250 1. 3125 1. 375 1. 4375	18 18 18 18	1. 2139 1. 2764 1. 3389 1. 4014	1. 1818 1. 2443 1. 3068 1. 3693	1. 1899 1. 2524 1. 3149 1. 3774	0 50 0 48 0 45 0 43	1. 090 1. 208 1. 333 1. 464	1. 123 1. 244 1. 570 1. 503
1½ 1¾ 1¾	19/16 111/16	1. 500 1. 5625 1. 625 1. 6875	18 18 18 18	1. 4639 1. 5264 1. 5889 1. 6514	1. 4318 1. 4943 1. 5568 1. 6193	1. 4399 1. 5024 1. 5649 1. 6274	$\begin{array}{ccc} 0 & 42 \\ 0 & 40 \\ 0 & 38 \\ 0 & 37 \end{array}$	1. 60 1. 74 1. 89 2. 05	1. 64 1. 79 1. 94 2. 10

 $[^]a$ For sizes larger than $1^1 M_{6}, 1.6875$, inch use 16-thread series. See table III.8 in this Supplement. b Design form. See fig. III.1, p. 2 in this Supplement. c See formula under definition of tensile stress area on p. 102 in this Supplement.

Table III.6.—8-thread series, basic dimensions, 8UN

Nomi	nal size	Nominal size and	Basic pitch	Minor diameter,	Minor diameter,	Lead basic	angle at	Sectional area at minor	Tensile stress
Primary	Secondary	basic major diameter, D	diameter, E	external threads, K_s	internal threads, K_n	diameter, λ		diameter at $D-2h_b$	$\pi \left(\frac{E}{2} - \frac{3H}{16}\right)^2$
1	2	3	4	5	6		7	8	9
in. a 1	in.	in. 1. 000	in. 0. 9188	in. 0. 8466	in, 0. 8647	$\frac{deg}{2}$	min 29	in. ² 0. 551	in. ² 0. 606
11/8	1½6 1¾6	1. 0625 1. 125 1. 1875	. 9813 1. 0438 1. 1063	. 9091 . 9716 1. 0341	. 9272 . 9897 1, 0522	2 2 2 2	19 11 4	. 636 . 728 . 825	. 695 . 790 . 892
134	1516	1. 250 1. 3125	1. 1688 1. 2313	1. 0966 1. 1591	1. 1147 1. 1772	1	57 51	. 929 1. 039	1. 000 1. 114
13/8	17/16	1. 375 1. 4375	1. 2938 1. 3563	1. 2216 1. 2841	1. 2397 1. 3022	1	46 41	1. 155 1. 277	1. 233 1. 360
11/2	1916	1. 500 1. 5625	1. 4188 1. 4813	1. 3466 1. 4091	1. 3647 1. 4272	1	36 32	1. 405 1. 54	1. 492 1. 63
15%	111/16	1. 625 1. 6875	1. 5438 1. 6063	1. 4716 1. 5341	1. 4897 1. 5522	1	29 25	1. 68 1. 83	1. 78 1. 93
1 ³ 4 1 ⁷ 8	113/16	1. 750 1. 8125 1. 875	1. 6688 1. 7313	1. 5966 1. 6591	1. 6147 1. 6772	1	22 19	1. 98 2. 14	2. 08 2. 25
178	115/16	1. 875 1. 9375	1. 7938 1. 8563	1. 7216 1. 7841	1. 7397 1. 8022	1	16 14	2.30 2.47	2. 41 2. 59
2	21/8	2. 000 2. 125	1, 9188 2, 0438	1. 8466 1. 9716	1. 8647 1. 9897	1	11 7	2. 65 3. 03	2. 77 3. 15
21/4	238	2. 250 2. 375	2. 1688 2. 2938	2. 0966 2. 2216	2. 1147 2. 2397	1 1	3	3. 42 3. 85	3. 56 3. 99
$2\frac{1}{2}$	25%	2. 500 2. 625	2. 4188 2. 5438	2, 3466 2, 4716	2. 3647 2. 4897	0	57 54	4. 29 4. 76	4. 44 4. 92
23/4	27/8	2. 750 2. 875	2. 6688 2. 7938	2. 5966 2. 7216	2. 6147 2. 7397	0	51 49	5. 26 5. 78	5. 43 5. 95
3	31/8	3. 000 3. 125	2. 9188 3. 0438	2. 8466 2. 9716	2. 8647 2. 9897	0	47 45	6.32 6.89	6. 51 7. 08
31/4	338	3. 250 3. 375	3. 1688 3. 2938	3. 0966 3. 2216	3. 1147 3. 2397	0 0	43 42	7. 49 8. 11	7. 69 8. 31

See footnotes at end of table.

Table III.6.—8-thread series, basic dimensions, 8UN—Continued

Nom	inal size Secondary	Nominal size and basic major diameter, D	Basic pitch diameter, E	$egin{array}{l} ext{Minor} & ext{diameter,} \ ext{external} & ext{threads,} & ext{} K_s \end{array}$	Minor diameter, internal threads, K_n	Lead as basic diame	pitch	Sectional area at minor diameter at $D-2h_b$	Tensile stress area, $\pi \left(\frac{E}{2} - \frac{3H}{16}\right)^2$
1	2	3	4	5	6	7		8	9
in. 3½ 3¾	in. 35% 37%	in. 3.500 3.625 3.750 3.875	in. 3. 4188 3. 5438 3. 6688 3. 7938	in, 3, 3466 3, 4716 3, 5966 3, 7216	in. 3.3647 3.4897 3.6147 3.7397	deg 0 0 0 0	min 40 39 37 36	in. ² 8. 75 9. 42 10. 11 10. 83	in. ² 8. 96 9. 64 10. 34 11. 06
4 41/4	4½ 4½ 4¾	4. 000 4. 125 4. 250 4. 375	3. 9188 4. 0438 4. 1688 4. 2938	3. 8466 3. 9716 4. 0966 4. 2216	3. 8647 3. 9897 4. 1147 4. 2397	0 0 0 0	35 34 33 32	11. 57 12. 34 13. 12 13. 94	11. 81 12. 59 13. 38 14. 21
4½ 4¾	45 % 47 %	4, 500 4, 625 4, 750 4, 875	4. 4188 4. 5438 4. 6688 4. 7938	4. 3466 4. 4716 4. 5966 4. 7216	4. 3647 4. 4897 4. 6147 4. 7397	0 0 0 0	31 30 29 29	14. 78 15. 6 16. 5 17. 4	15. 1 15. 9 16. 8 17. 7
5 5½	5½ 5¾	5, 000 5, 125 5, 250 5, 375	4. 9188 5. 0438 5. 1688 5. 2938	4. 8466 4. 9716 5. 0966 5. 2216	4. 8647 4. 9897 5. 1147 5. 2397	0 0 0 0	28 27 26 26	18. 4 19. 3 20. 3 21. 3	18. 7 19. 7 20. 7 21. 7
53⁄2 53⁄4 6	55% 57%	5. 500 5. 625 5. 750 5. 875 6. 000	5. 4188 5. 5438 5. 6688 5. 7938 5. 9188	5. 3466 5. 4716 5. 5966 5. 7216 5. 8466	5. 3647 5. 4897 5. 6147 5. 7397 5. 8647	0 0 0 0	25 25 24 24 23	22. 4 23. 4 24. 5 25. 6 26. 8	22. 7 23. 8 24. 9 26. 0 27. 1

Table III.7.—12-thread series, basic dimensions, 12UN

				b	[b]		-		
Nom	inal size Secondary	Nominal size and basic major diameter, D	Basic pitch diameter, E	$egin{array}{l} ext{Minor} & ext{diameter,} \ ext{external} \ ext{threads,} & ext{K_s} \end{array}$	Minor diameter, internal threads, K_n	basic	angle at c pitch neter, λ	Sectional area at minor diameter at $D-2h_{b}$	Tensile stress area, $\pi \left(\frac{E}{2} - \frac{3H}{16}\right)^2$
1	2	3	4	5	6		7	8	9
in. ^a 9/16 5/8	in.	in. . 5625 . 625 . 6875	in. 0. 5084 . 5709 . 6334	in, 0. 4603 . 5228 . 5853	in. 0. 4723 . 5348 . 5973	deg 2 2 2 2	min 59 40 24	in.² 0. 162 210 264	in.² 0. 182 232 289
3/4 7/8	13/ ₁₆	. 750 . 8125 . 875 . 9375	. 6959 . 7584 . 8209 . 8834	. 6478 . 7103 . 7728 8353	. 6598 . 7223 . 7848 . 8473	$\begin{array}{c}2\\2\\1\\1\end{array}$	11 0 51 43	. 323 . 390 . 462 . 540	. 351 . 420 . 495 . 576
a 1 a 11/8	1½6 1¾6	1. 000 1. 0625 1. 125 1. 1875	. 9459 1. 0084 1. 0709 1. 1334	. 8978 . 9603 1. 0228 1. 0853	. 9098 . 9723 1. 0348 1. 0973	1 1 1 1	36 30 25 20	. 625 . 715 . 812 . 915	. 663 . 756 . 856 . 961
a 1½ a 1¾	15/16 17/16	1. 250 1. 3125 1. 375 1. 4375	1. 1959 1. 2584 1. 3209 1. 3834	1.1478 1.2103 1.2728 1.3353	1, 1598 1, 2223 1, 2848 1, 3473	1 1 1 1	16 12 9 6	1. 024 1. 139 1. 260 1. 388	1. 073 1. 191 1. 315 1. 445
a 1½ 158	1916 1 ¹ 1/16	1, 500 1, 5625 1, 625 1, 6875	1, 4459 1, 5084 1, 5709 1, 6334	1, 3978 1, 4603 1, 5228 1, 5853	1. 4098 1. 4723 1. 5348 1. 5973	1 1 0 0	3 0 58 56	1. 52 1. 66 1. 81 1. 96	1. 58 1. 72 1. 87 2. 03
134 178	1 ¹³ / ₁₆	1, 750 1, 8125 1, 875 1, 9375	1. 6959 1. 7584 1. 8209 1. 8834	1. 6478 1. 7103 1. 7728 1. 8353	1, 6598 1, 7223 1, 7848 1, 8473	0 0 0 0	54 52 50 48	2. 12 2. 28 2. 45 2. 63	2. 19 2. 35 2. 53 2. 71
$\frac{2}{2\frac{1}{4}}$	21/8 23/8	2, 000 2, 125 2, 250 2, 375	1. 9459 2. 0709 2. 1959 2. 3209	1. 8978 2. 0228 2. 1478 2. 2728	1 9098 2. 0348 2. 1598 2. 2848	0 0 0 0	47 44 42 39	2. 81 3. 19 3. 60 4. 04	2. 89 3. 28 3. 69 4. 13
$2\frac{1}{2}$ $2\frac{3}{4}$	25/8 27/8	2. 500 2. 625 2. 750 2. 875	2. 4459 2. 5709 2. 6959 2. 8209	2. 3978 2. 5228 2. 6478 2. 7728	2. 4098 2. 5348 2. 6598 2. 7848	0 0 0 0	37 35 34 32	4. 49 4. 97 5. 48 6. 01	4. 60 5. 08 5. 59 6. 13
3 3½	3½ 3¾ 3¾	3. 000 3. 125 3. 250 3. 375	2. 9459 3. 0709 3. 1959 3. 3209	2. 8978 3. 0228 3. 1478 3. 2728	2. 9098 3. 0348 3. 1598 3. 2848	0 0 0 0	$\begin{array}{c} 31 \\ 30 \\ 29 \\ 27 \end{array}$	6. 57 7. 15 7. 75 8. 38	6. 69 7. 28 7. 89 8. 52

See footnotes at end of table.

<sup>This is a standard size of the UNC series,
Design form. See fig. III.1, p. 2 in this Supplement.
See formula under definition of tensile stress area on p. 102 in this Supplement.</sup>

Table III. 7.—12-thread series, basic dimensions, 12UN—Continued

Nom	inal size	Nominal size and	Basic pitch	Minor diameter,	Minor diameter,	basic		Sectional area at minor	Tensile stress
Primary	Secondary	basic major diameter, D	diameter, E	external threads, K.	internal threads, K_n	diam	eter, λ	$\begin{array}{c} \text{diameter at} \\ D-2h_b \end{array}$	$\pi \left(\frac{E}{2} - \frac{3H}{16}\right)^2$
1	2	3	4	5	6		7	8	9
$in. \ 3\frac{1}{2}$	in.	in. 3. 500	in. 3. 4459	in. 3. 3978	in. 3. 4098	deg 0	min 26	$in.^{2}$ 9. 03	in.2 9. 18
33/4	358 378	3. 625 3. 750 3. 875	3. 5709 3. 6959 3. 8209	3. 5228 3. 6478 3. 7728	3. 5348 3. 6598 3. 7848	0 0 0	26 25 24	9. 71 10. 42 11. 14	9. 86 10. 57 11. 30
4	41/8	4. 000 4. 125	3. 9459 4. 0709	3. 8978 4. 0228	3. 9098 4. 0348 4. 1598	0	23 22 22	11. 90 12. 67	12. 06 12. 84
434	43/8	4. 250 4. 375	4. 1959 4. 3209	4. 1478 4. 2728	4. 2848	0	21	13. 47 14. 30	13. 65 14. 48
4½	45%	4. 500 4. 625 4. 750	4. 4459 4. 5709 4. 6959	4. 3978 4. 5228 4. 6478	4. 4098 4. 5348 4. 6598	0 0 0	21 20 19	15. 1 16. 0 16. 9	15. 3 16. 2 17. 1
43⁄4 5	47/8	4. 875 5. 000	4. 8209 4. 9459	4. 7728 4. 8978	4. 7848 4. 9098	0	19 18	17. 8 18. 8	18. 0 19. 0
51/4	5½ 5¾	5. 125 5. 250 5. 375	5. 0709 5. 1959 5. 3209	5. 0228 5. 1478 5. 2728	5. 0348 5. 1598 5. 2848	0 0 0	18 18 17	19. 8 20. 8 21. 8	20. 0 21. 0 22. 0
51/2	55%	5, 500 5, 625	5. 4459 5. 5709	5. 3978 5. 5228	5. 4098 5. 5348	0	17 16	22. 8 23. 9	23. 1 24. 1
5¾ 6	57/6	5. 750 5. 875 6. 000	5. 6959 5. 8209 5. 9459	5. 6478 5. 7728 5. 8978	5. 6598 5. 7848 5. 9098	0 0 0	16 16 15	25. 0 26. 1 27. 3	25. 2 26. 4 27. 5

Table III.8.—16-thread series, basic dimensions, 16UN

Nomi	inal size	Nominal size and	Basic pitch	Minor diameter,	Minor- diameter,	basi	angle at e pitch	Sectional area at minor	Tensile stress area,
Primary	Secondary	hasic major diameter, D	diameter, E	external threads, K_s	internal threads, K_n	diam	eter, λ	$\begin{array}{c} \text{diameter at} \\ D-2h_b \end{array}$	$\pi \left(\frac{E}{2} - \frac{3H}{16}\right)^2$
1	2 3 4 5		6		7	8	9		
in. a 3/8 7/16	in.	in. . 375 . 4375	in. 0. 3344 . 3969	in. 0. 2983 . 3608	in. 0. 3073 . 3698	deg 3 2	min 24 52	in.² 0. 0678 . 0997	in.² 0. 0775 . 1114
1/2 9/16 5/8	1 ½ ₁₆	. 500 . 5625 . 625 . 6875	. 4594 . 5219 . 5844 . 6469	. 4233 . 4858 . 5483 . 6108	. 4323 . 4948 . 5573 . 6198	2 2 1 1	29 11 57 46	. 1378 . 182 . 232 . 289	. 151 . 198 . 250 . 308
a 3/4 7/8	13/ ₁₆	. 750 . 8125 . 875 . 9375	. 7094 . 7719 . 8 344 . 8969	. 6733 . 7358 . 7983 . 8608	. 6823 . 7448 . 8073 . 8698	1 1 1 1	36 29 22 16	. 351 . 420 . 495 . 576	. 373 . 444 . 521 . 604
1 1½8	1½6 1¾6	1. 000 1. 0625 1. 125 1. 1875	. 9594 1. 0219 1. 0844 1. 1469	. 9233 . 9858 1. 0483 1. 1108	. 9323 . 9948 1. 0573 1. 1198	1 1 1	11 7 3 0	. 663 . 756 . 856 . 961	. 693 . 788 . 889 . 997
1¼ 1¾	15/16 17/16	1. 250 1. 3125 1. 375 1. 4375	1. 2094 1. 2719 1. 3344 1. 3969	1. 1733 1. 2358 1. 2983 1. 3608	1. 1823 1. 2448 1. 3073 1. 3698	0 0 0 0	57 54 51 49	1. 073' 1. 191 1. 315 1. 445	1. 111 1. 230 1. 356 1. 488
1½ 15%	19/16 111/16	1. 500 1. 5625 1. 625 1. 6875	1. 4594 1. 5219 1. 5844 1. 6469	1. 4233 1. 4858 1. 5483 1. 6108	1. 4323 1. 4948 1. 5573 1. 6198	0 0 0 0	47 45 43 42	1. 58 1. 72 1. 87 2. 03	1. 63 1. 77 1. 92 2. 08
1¾ 1¾	1 ¹³ / ₁₆ 1 ¹⁵ / ₁₆	1. 750 1. 8125 1. 875 1. 9375	1. 7094 1. 7719 1. 8344 1. 8969	1. 6733 1. 7358 1. 7983 1. 8608	1. 6823 1. 7448 1. 8073 1. 8698	0 0 0	40 39 37 36	2. 19 2. 35 2. 53 2. 71	2. 24 2. 41 2. 58 2. 77
2	21/8	2. 000 2. 125	1. 9594 2. 0844 2. 2094	1. 9233 2. 0483	1. 9323 2. 0573 2. 1823 2. 3073	0	35 33	2. 89 3. 28	2. 95 3. 35
21/4	23%	2. 250 2. 375	2. 2094 2. 3344	2. 1733 2. 2983	2. 1823 2. 3073	0	31 29	3. 69 4. 13	3. 76 4. 21
2½ 2¾	256 278	2. 500 2. 625 2. 750 2. 875	2. 4594 2. 5844 2. 7094 2. 8344	2. 4233 2. 5483 2. 6733 2. 7983	2. 4323 2. 5573 2. 6823 2. 8073	0 0 0 0	28 26 25 24	4. 60 5. 08 5. 59 6. 13	4. 67 5. 16 5. 68 6. 22

See footnotes at end of table.

 $[\]circ$ These are standard sizes of the UNC or UNF series. $^{\flat}$ Design form. See fig. III.1, p. 2 in this Supplement. $^{\circ}$ See formula under definition of tensile stress area on p. 102 in this Supplement.

Table III. 8.—16-thread series, basic dimensions, 16UN—Continued

Nomi	nal size	Nominal size and basic major	Basic pitch diameter, E	Minor diameter, external	Minor diameter, internal	Lead ar basic diame	pitch	Sectional area at minor diameter at	Tensile stress area, $(E 3H)^2$
Primary	Secondary	diameter, D		threads, K.	threads, Kn			D-2h b	$\pi\left(\frac{2}{2}-\frac{31}{16}\right)$
1	2	3	4	5	6	7		8	9
in. 3	in. 31/8 33/4	in. 3. 000 3. 125 3. 250 3. 375	in. 2. 9594 3. 0844 3. 2094 3. 3344	in. 2. 9233 3. 0483 3. 1733 3. 2983	in. 2. 9323 3. 0573 3. 1823 3. 3073	deg 0 0 0 0	min 23 22 21 21	in. ² 6. 69 7. 28 7. 89 8. 52	$in.^2$ 6.78 7.37 7.99 8.63
3½ 3¾	358 378	3. 500 3. 625 3. 750 3. 875	3. 4594 3. 5844 3. 7094 3. 8344	3. 4233 3. 5483 3. 6733 3. 7983	3. 4323 3. 5573 3. 6823 3. 8073	0 0 0 0	20 19 18 18	9. 18 9. 86 10. 57 11. 30	9. 29 9. 98 10. 69 11. 43
4 414	4½ 4¾	4. 000 4. 125 4. 250 4. 375	3. 9594 4. 0844 4. 2094 4. 3344	3. 9233 4. 0483 4. 1733 4. 2983	3. 9323 4. 0573 4. 1823 4. 3073	0 0 0 0	17 17 16 16	12. 06 12. 84 13. 65 14. 48	12. 19 12. 97 13. 78 14. 62
4½ 4¾	45/8 47/8	4. 500 4. 625 4. 750 4. 875	4. 4594 4. 5844 4. 7094 4. 8344	4. 4233 4. 5483 4. 6733 4. 7983	4. 43 23 4. 5573 4. 6823 4. 8073	0 0 0 0	15 15 15 14	15. 34 16. 2 17. 1 18. 0	15. 5 16. 4 17. 3 18. 2
5 5½	5½ 5¾	5. 000 5. 125 5. 250 5. 375	4. 9594 5. 0844 5. 2094 5. 3344	4. 9233 5. 0483 5. 1733 5. 2983	4. 9323 5. 0573 5. 1823 5. 3073	0 0 0 0	14 13 13 13	19. 0 20. 0 21. 0 22. 0	19. 2 20. 1 21. 1 22. 2
5½ 5¾ 6	55% 57%	5. 500 5. 625 5. 750 5. 875 6. 000	5. 4594 5. 5844 5. 7094 5. 8344 5. 9594	5. 4233 5. 5483 5. 6733 5. 7983 5. 9233	5. 4323 5. 5573 5. 6823 5. 8073 5. 9323	0 0 0 0	13 12 12 12 12	23. 1 24. 1 25. 2 26. 4 27. 5	23. 2 24. 3 25. 4 26. 5 27. 7

Table III.8a.-4-thread series, basic dimensions, 4UN

Nomi	nal size	Nominal size and	Basic pitch	Minor diameter.	Minor djameter,	Lead angle at basic pitch	Sectional area at minor	Tensile stress
Primary	Secondary	basic major diameter, D	diameter, E	external threads, K_s	internal threads, K_n	diameter, λ	diameter at $D-2h_b$	$\pi \left(\frac{E}{2} - \frac{3H}{16}\right)^2$
1	2	3	4	5	6	7	8	9
in. a 2½ a 2¾	in. 25% 27%	in. 2. 500 2. 625 2. 750 2. 875	in. 2.3376 2.4626 2.5876 2.7126	in. 2. 1933 2. 3183 2. 4433 2. 5683	in. 2. 2294 2. 3544 2. 4794 2. 6044	deg min 1 57 1 51 1 46 1 41	in.² 3. 72 4. 16 4. 62 5. 11	in. ² 4. 00 4. 45 4. 93 5. 44
a 3 a 3½	31/8 33/8	3. 000 3. 125 3. 250 3. 375	2. 8376 2. 9626 3. 0876 3. 2126	2. 6933 2. 8183 2. 9433 3. 0683	2, 7294 2, 8544 2, 9794 3, 1044	1 36 1 32 1 29 1 25	5. 62 6. 16 6. 72 7. 31	5. 97 6. 52 7. 10 7. 70
a 3½ a 3¾	35% 37%	3. 500 3. 625 3. 750 3. 875	3. 3376 3. 4626 3. 5876 3. 7126	3, 1933 3, 3183 3, 4433 3, 5683	3. 2294 3. 3544 3. 4794 3. 6044	1 22 1 19 1 16 1 14	7. 92 8. 55 9. 21 9. 90	8. 33 9. 00 9. 66 10. 36
a 4 4½	41/8 43/8	4. 000 4. 125 4. 250 4. 375	3. 8376 3. 9626 4. 0876 4. 2126	3, 6933 3, 8183 3, 9433 4, 0683	3. 7294 3. 8544 3. 9794 4. 1044	1 11 1 9 1 7 1 5	10. 61 11. 34 12. 10 12. 88	11. 08 11. 83 12. 61 13. 41
4}2 4¾	45% 47%	4. 500 4. 625 4. 750 4. 875	4. 3376 4. 4626 4. 5876 4. 7126	4. 1933 4. 3183 4. 4433 4. 5683	4. 2294 4. 3544 4. 4794 4. 6044	1 3 1 1 1 0 0 58	13. 69 14. 52 15. 4 16. 3	14. 23 15. 1 15. 9 16. 8
5 5½	51/8 53/8	5. 000 5. 125 5. 250 5. 375	4. 8376 4. 9626 5. 0876 5. 2126	4. 6933 4. 8183 4. 9433 5. 0683	4. 7294 4. 8544 4. 9794 5. 1044	0 57 0 55 0 54 0 52	17. 2 18. 1 19. 1 20. 0	17. 8 18. 7 19. 7 20. 7
5½ 5¾ 6	55% 57%	5. 500 5. 625 5. 750 5. 875 6. 000	5. 3376 5. 4626 5. 5876 5. 7126 5. 8376	5. 1933 5. 3183 5. 4433 5. 5683 5. 6933	5, 2294 5, 3544 5, 4794 5, 6044 5, 7294	0 51 0 50 0 49 0 48 0 47	21. 0 22. 1 23. 1 24. 2 25. 3	21. 7 22. 7 23. 8 24. 9 26. 0

<sup>These are standard sizes of the UNC or UNF Series.
Design form. See fig. III.1, p. 2 in this Supplement.
See formula under definition of tensile stress area on p. 102 in this Supplement.</sup>

<sup>These are standard sizes of the UNC series.
Design form. See fig. III.1, p. 2 in this Supplement.
See formula under definition of tensile stress area on p. 102 in this Supplement.</sup>

Table III.8b.—6-thread series, basic dimensions, 6UN

			E III.OD. O	·		,			
Nom	inal size Secondary	Nominal size and basic major diameter, D	Basic pitch diameter, E	Minor diameter, external threads, K_s	$Minor$ diameter, internal threads, K_n	basic	angle at pitch etcr, λ	Sectional area at minor diameter at $D-2h_b$	Tensile stress area, $\pi \left(\frac{E}{2} - \frac{3H}{16}\right)^2$
1	2	3	4	5	6		7	8	9
in. a 13/8	in. 17/16	in. 1. 375 1. 4375	in. 1. 2667 1. 3292	in. 1. 1705 1. 2330	$in. \\ 1.1946 \\ 1.2571$	$\begin{array}{c} deg \\ 2 \\ 2 \end{array}$	min 24 17	in. ² 1.054 1.171	in.2 1, 155 1, 277
a 1½ 158	1916 11116	1. 500 1. 5625 1. 625 1. 6875	1. 3917 1. 4542 1. 5167 1. 5792	1. 2955 1. 3580 1. 4205 1. 4830	1. 3196 1. 3821 1. 4446 1. 5071	2 2 2 1	11 5 0 55	1. 294 1. 423 1. 56 1. 70	1. 405 1. 54 1. 68 1. 83
134 178	1 ¹³ / ₁₆ 1 ¹⁵ / ₁₆	1. 750 1. 8125 1. 875 1. 9375	1. 6417 1. 7042 1. 7667 1. 8292	1. 5455 1. 6080 1. 6705 1. 7330	1. 5696 1. 6321 1. 6946 1. 7571	1 1 1 1	51 47 43 40	1, 85 2, 00 2, 16 2, 33	1. 98 2. 14 2. 30 2. 47
2 2½4	2½ 2¾ 2¾	2. 000 2. 125 2. 250 2. 375	1. 8917 2. 0167 2. 1417 2. 2667	1. 7955 1. 9205 2. 0455 2. 1705	1. 8196 1. 9446 2. 0696 2. 1946	1 1 1 1	36 30 25 20	2. 50 2. 86 3. 25 3. 66	2. 65 3. 03 3. 42 3. 85
2½ 2¾	25% 27%	2. 500 2. 625 2. 750 2. 875	• 2.3917 2.5167 2.6417 2.7667	2. 2955 2. 4205 2. 5455 2. 6705	2. 3196 2. 4446 2. 5696 2. 6946	1 1 1	16 12 9 6	4. 10 4. 56 5. 04 5. 55	4. 29 4. 76 5. 26 5. 78
3 31⁄4	3½ 3¾ 3¾	3. 000 3. 125 3. 250 3. 375	2.8917 3.0167 3.1417 3.2667	2. 7955 2. 9205 3. 0455 3. 1705	2. 8196 2. 9446 3. 0696 3. 1946	1 1 0 0	3 0 58 56	6. 09 6. 64 7. 23 7. 84	6. 33 6. 89 7. 49 8. 11
3½ 3¾	358 378	3. 500 3. 625 3. 750 3. 875	3. 3917 3. 5167 3. 6417 3. 7667	3. 2955 3. 4205 3. 5455 3. 6705	3. 3196 3. 4446 3. 5696 3. 6946	0 0 0 0	54 52 50 48	8. 47 9. 12 9. 81 10. 51	8. 75 9. 42 10. 11 10. 83
4 4½	4½6 4¾6	4.000 4.125 4.250 4.375	3. 8917 4. 0167 4. 1417 4. 2667	3. 7955 3. 9205 4. 0455 4. 1705	3.8196 3.9446 4.0696 4.1946	0 0 0 0	47 45 44 43	11. 24 12. 00 12. 78 13. 58	11. 57 12. 33 13. 12 13. 94
4½ 4¾	45% 47%	4. 500 4. 625 4. 750 4. 875	4. 3917 4. 5167 4. 6417 4. 7667	4. 2955 4. 4205 4. 5455 4. 6705	4. 3196 4. 4446 4. 5696 4. 6946	0 0 0 0	42 40 39 38	14. 41 15. 3 16. 1 17. 0	14. 78 15. 6 16. 5 17. 5
5 5½	5½ 5¾	5. 000 5. 125 5. 250 5. 375	4. 8917 5. 0167 5. 1417 5. 2667	4. 7955 4. 9205 5. 0455 5. 1705	4. 8196 4. 9446 5. 0696 5, 1946	0 0 0 0	37 36 35 35	18. 0 18. 9 19. 9 20. 9	18. 4 19. 3 20. 3 21. 3
5½ 5¾ 6	5% 57%	5. 500 5. 625 5. 750 5. 875 6. 000	5. 3917 5. 5167 5. 6417 5. 7667 5. 8917	5. 2955 5. 4205 5. 5455 5. 6705 5. 7955	5, 3196 5, 4446 5, 5696 5, 6946 5, 8196	0 0 0 0 0	34 33 32 32 31	21. 9 23. 0 24. 0 25. 1 26. 3	22. 4 23. 4 24. 5 25. 6 26. 8

 $[^]a$ These are standard sizes of the UNC series. b Design form. See fig. III.1, p. 2 in this Supplement. c See formula under definition of tensile stress area on p. 102 in this Supplement.

Table III.8c.—20-thread series, basic dimensions, 20UN

Nomi	nal size	Nominal size and basic major	Basic pitch diameter, E	Minor diameter, external	Minor diameter, internal	Lead ar basic j diame	oitch	Sectional area at minor diameter at	Tensile stress
Primary	Secondary	diameter, D		threads, K_s	threads, K_n		,	D-2h b	$\pi \left(\frac{E}{3} - \frac{3H}{16} \right)^2$
1	2	2 3 4		5	6	7		8	9
in. 4 14 516 36 4 716	in.	$in. \ .250 \ .3125 \ .375 \ .4375$	in. 0. 2175 . 2800 . 3425 . 4050	$in. \\ 0.1887 \\ .2512 \\ .3137 \\ .3762$	in, 0. 1959 . 2584 . 3209 . 3834	deg 4 3 2 2	min 11 15 40 15	in. ² 0. 0269 0.481 0.755 1090	in.2 0. 0318 . 0547 . 0836 . 1187
4 14 916 58	11/16	. 500 . 5625 . 625 . 6875	. 4675 . 5300 . 5925 . 6550	. 4387 . 5012 . 5637 . 6262	. 4459 . 5084 . 5709 . 6334	1 1 1 1	57 43 32 24	. 1486 . 194 . 246 . 304	. 160 . 207 . 261 . 320
a 3/4 a 7/8	a 13/16 a 15/16	. 750 . 8125 . 875 . 9375	. 7175 . 7800 . 8425 . 9050	. 6887 . 7512 . 8137 . 8762	. 6959 . 7584 . 8209 . 8834	1 1 1 1	16 10 5 0	. 369 . 439 . 515 . 598	. 386 . 458 . 536 . 620
a 1 1½8	1½6 1¾6	1, 000 1, 0625 1, 125 1, 1875	. 9675 1. 0300 1. 0925 1. 1550	. 9387 1. 0012 1. 0637 1. 1262	. 9459 1. 0084 1. 0709 1. 1334	0 0 0 0	57 53 50 47	. 687 . 782 . 882 . 990	. 711 . 807 . 910 1. 018
1½ 1¾ 1¾	15/16 17/16	1. 250 1. 3125 1. 375 1. 4375	1. 2175 1. 2800 1. 3425 1. 4050	1. 1887 1. 2512 1. 3137 1. 3762	1. 1959 1. 2584 1. 3209 1. 3834	0 0 0 0	45 43 41 39	1. 103 1. 222 1. 348 1. 479	1, 133 1, 254 1, 382 1, 51
1½ 156	19/16 111/16	1. 500 1. 5625 1. 625 1. 6875	1. 4675 1. 5300 1. 5925 1. 6550	1. 4387 1. 5012 1. 5637 1. 6262	1. 4459 1. 5084 1. 5709 1. 6334	0 0 0 0	37 36 34 33	1. 62 1. 76 1. 91 2. 07	1. 65 1. 80 1. 95 2. 11
13⁄4 17⁄8	113/ ₁₆ 115/ ₁₆	1. 750 1. 8125 1. 875 1. 9375	1, 7175 1, 7800 1, 8425 1, 9050	1. 6887 1. 7512 1. 8137 1. 8762	1. 6959 1. 7584 1. 8209 1. 8834	0 0 0 0	32 31 30 29	2, 23 2, 40 2, 57 2, 75	2. 27 2. 44 2. 62 2. 80
2 2½4	21/8 23/8	2. 000 2. 125 2. 250 2. 375	1. 9675 2. 0925 2. 2175 2. 3425	1. 9387 2. 0637 2. 1887 2. 3137	1. 9459 2. 0709 2. 1959 2. 3209	0 0 0 0	28 26 25 23	2. 94 3. 33 3. 75 4. 19	2. 99 3. 39 3. 81 4. 25
2½ 2¾ 3	25% 27%	2. 500 2. 625 2. 750 2. 875 3. 000	2. 4675 2. 5925 2. 7175 2. 8425 2. 9675	2. 4387 2. 5637 2. 6887 2. 8137 2. 9387	2. 4459 2. 5709 2. 6959 2. 8209 2. 9459	0 0 0 0 0	22 21 20 19 18	4. 66 5. 15 5. 66 6. 20 6. 77	4. 72 5. 21 5. 73 6. 27 6. 84

<sup>These are standard sizes of the UNC, UNF, or UNEF series.
Design form. See fig. III.1, p. 2 in this Supplement.
See formula under definition of tensile stress area on p. 102 in this Supplement.</sup>

Table III.8d.—28-thread series, basic dimensions, 28UN

Nom	inal size	Nominal size and	Basic pitch	Minor diameter,	Minor diameter,	basic	angle at pitch	Sectional area at minor	Tensile stress area,	
Primary	Secondary	basic major diameter, E diameter, D		external threads, K.	internal threads, K_n	diam	eter, λ	diameter at D-2h b	$\pi \left(\frac{E}{2} - \frac{3H}{16}\right)^2$	
1	2	3	3 4		6		7 8		9	
in. 14 516 36 2716	No. in.	in. . 216 . 250 . 3125 . 375 . 4375	in. 0. 1928 . 2268 . 2893 . 3518 . 4143	in. 0. 1722 . 2062 . 2687 . 3312 . 3937	in. 0. 1773 . 2113 . 2738 . 3363 . 3988	deg 3 2 2 1 1	min 22 52 15 51 34	in. ² 0.0226 .0326 .0556 .0848 .1201	in.² 0.0258 0.0364 0606 0909 1274	
a 1/2 9/16 5/8	11/16	. 500 . 5625 . 625 . 6875	. 4768 . 5393 . 6018 . 6643	. 4562 . 5187 . 5812 . 6437	. 4613 . 5238 . 5863 . 6488	1 1 1 0	22 12 5 59	. 162 . 209 . 263 . 323	. 170 . 219 . 274 . 335	
34 76	13/16 15/16	. 750 . 8125 . 875 . 9375	. 7268 . 7893 . 8518 . 9143	. 7062 . 7687 . 8312 . 8937	. 7113 . 7738 . 8363 . 8988	0 0 0 0	54 50 46 43	. 389 . 461 . 539 . 624	. 402 . 475 . 554 . 640	
1 138	1 ¹ / ₆ 1 ³ / ₁ 6	1. 000 1. 0625 1. 125 1. 1875	. 9768 1. 0393 1. 1018 1. 1643	. 9562 1. 0187 1. 0812 1. 1437	. 9613 1. 0238 1. 0863 1. 1488	0 0 0	40 38 35 34	. 714 . 811 . 914 1. 023	. 732 . 830 . 933 1. 044	
134 136 112	15/16 17/16	1. 250 1. 3125 1. 375 1. 4375	1. 2268 1. 2893 1. 3518 1. 4143	1. 2062 1. 2687 1. 3312 1. 3937	1. 2113 1. 2738 1. 3363 1. 3988	0 0 0 0	32 30 29 28	1. 138 1. 259 1. 386 1. 52	1. 160 1. 282 1. 411 1. 55	
1/2		1. 500	1.4768	1. 4562	1. 4613	0	26	1. 66	1.69	

Table III.8e. -32-thread series, basic dimensions, 32UN

Nomi Primary	nal size Secondary	Nominal size and basic major diameter, D	Basic pitch diameter, E	Minor diameter, external threads, K.	Minor diameter, internal threads, K_n	Lead angle basic pitc diameter,	h	Sectional area at minor diameter at $D-2h_{\delta}$	Tensile stress area, $\pi \left(\frac{E}{2} - \frac{3H}{16}\right)^2$
1	2	3	4	5	6	7		8	9 ,
No. in. 4 6 4 8 4 10	No. in.	in. . 138 . 164 . 190 . 216	in. 0. 1177 . 1437 . 1697 . 1957	in. 0.0997 .1257 .1517 .1777	in. 0. 1042 . 1302 . 1562 . 1822	4 8 3 8 3 2	in 0 8 1 5	in. ² 0.00745 .01196 .01750 .0242	in.2 0.00909 .0140 .0200 .0270
a 14 a 5/16 a 3/8 7/16		. 250 . 3125 . 375 . 4375	. 2297 . 2922 . 3547 . 4172	. 2117 . 2742 . 3367 . 3992	. 2162 . 2787 . 3412 . 4037	2 1 1 3 1	9 7 6 2	. 0344 . 0581 . 0878 . 1237	. 0379 . 0625 . 0932 . 1301
1/2 9/16 5/8	11/16	. 500 . 5625 . 625 . 6875	. 4797 . 5422 . 6047 . 6672	. 4617 . 5242 . 5867 . 6492	. 4662 . 5287 . 5912 . 6537	1 1 1 0 8 0 8	1 3 7 1	. 166 . 214 . 268 . 329	. 173 . 222 . 278 . 339
34 78 1	¹³ / ₁₆	. 750 . 8125 . 875 . 9375 1. 000	. 7297 . 7922 . 8547 . 9172 . 9797	. 7117 . 7742 . 8367 . 8992 . 9617	.7162 .7787 .8412 .9037 .9662	0 4 0 4 0 5 0 5	7 3 0 7 5	. 395 . 468 . 547 . 632 . 723	. 407 . 480 . 560 . 646 . 738

<sup>These are standard sizes of the UNF or UNEF series,
Design form. See fig. III.1, p. 2 in this Supplement.
See formula under definition of tensile stress area on p. 102 in this Supplement.</sup>

These are standard sizes of the UNC, UNF, or UNEF series.
 Design form. See fig. III.1, p. 2 in this Supplement.
 See formula under definition of tensile stress area on p. 102 in this Supplement.

Table III.9 .- Increments in pitch diameter tolerance formula a [PD tolerance = $C(0.0015\sqrt[3]{D} + 0.0015\sqrt[3]{L_e} + 0.015\sqrt[3]{p^2})$]

	Diameter	increment	s						Length	of eng	agemen	t incremen	nts				
				Ba	sed on	ь			В	ased or	1 8			Basec	ion b		
D	$\sqrt[3]{\overline{D}}$	D	$\sqrt[0.0015]{\sqrt[3]{D}}$	1D for sizes	9p for tpi	20p for tpi	L.	$\sqrt[0.0015 \times]{V_{L}}$	1D for sizes	9p for tpi	20p for tpi	L_{ullet}	$\sqrt[0.0015]{L_{\bullet}}$	1D for sizes	20p for tpi	$L_{\mathfrak{o}}$	$\sqrt[0.0015]{L_s}$
1	,2	1	2	3	4	5	6	7	3	4	5	6	7	3	5	6	7
in. 0.0600 .0625 .0730 .0860 .0938	in, 0.000587 .000595 .000627 .000662 .000682	in, 1,9375 2,0000 2,1250 2,2500 2,3750	in. 0.001870 .001890 .001928 .001966 .002001	No. in. 0 1/16 1 5/64			in. 0.0600 .0625 .0730 .0781 .0860	in. 0.000367 .000375 .000405 .000419 .000440	in. 32 9/16 5/8	18 	40 36 	in. 0.5000 .5556 .5625 .6250 .6429	in, 0.001061 .001118 .001125 .001186 .001203	in. 23/8 21/2 25/8 23/4	8 7	in. 2. 3750 2. 5000 2. 6250 2. 7500 2. 8571	in. 0.002312 .002372 .002430 .002487 .002533
. 0990 . 1120 . 1250 . 1380 . 1640	.000694 .000723 .000750 .000775 .000821	2.5000 2.6250 2.7500 2.8750 3.0000	. 002036 . 002069 . 002102 . 002133 . 002163	3/32 3 7/64 4	80		. 0938 . 0990 . 1094 . 1120 . 1125	. 000459 . 000472 . 000496 . 000502 . 000503	11/16 3/4	13	28 27	. 6875 . 6923 . 7143 . 7407 . 7500	. 001244 . 001248 . 001268 . 001291 . 001299	27/8 3 31/8 31/4	6	2. 8750 3. 0000 3. 1250 3. 2500 3. 3333	. 002543 . 002598 . 002652 . 002704 . 002739
. 1875 . 1900 . 2160 . 2500 . 3125	.000859 .000862 .000900 .000945 .001018	3. 1250 3. 2500 3. 3750 3. 5000 3. 6250	. 002193 . 002222 . 002250 . 002277 . 002304	5 6 5/32	72 64 56		. 1250 . 1380 . 1406 . 1562 . 1607	. 000530 . 000557 . 000562 . 000593 . 000601		11½ 	24	. 7826 . 8125 . 8182 . 8333 . 8750	. 001327 . 001352 . 001357 . 001369 . 001403	3%		3. 3750 3. 5000 3. 6250 3. 7500 3. 8750	. 002756 . 002806 . 002856 . 002905 . 002953
. 3750 . 4375 . 5000 . 5625 . 6250	.001082 .001139 .001191 .001238 .001282	3.7500 3.8750 4.0000 4.1250 4.2500	.002330 .002356 .002381 .002406 .002430	8 11/64 3/16 10 13/64	48		. 1640 . 1719 . 1875 . 1900 . 2031	.000607 .000622 .000650 .000654 .000676	1 1 1½6	10 9	20	. 9000 . 9375 1. 0000 1. 0625 1. 1111	. 001423 . 001452 . 001500 . 001546 . 001581	4 4½ 4½ 4¾ 4¾	5 4½	4. 0000 4. 1250 4. 2500 4. 3750 4. 4444	. 003000 . 003047 . 003092 . 003137 . 003162
6875 . 7500 . 8125 . 8750 . 9375	. 001324 . 001363 . 001400 . 001435 . 001468	4. 3750 4. 5000 4. 6250 4. 7500 4. 8750	. 002453 . 002476 . 002499 . 002521 . 002543	12 7/32 15/64	44		. 2045 . 2160 . 2188 . 2250 . 2344	. 000678 . 000697 . 000702 . 000712 . 000726	1½8 1¾6 1¼ 15/16	8 7	16	1. 1250 1. 1875 1. 2500 1. 2857 1. 3125	. 001591 . 001635 . 001677 . 001701 . 001718	41/2 45/8 43/4 47/8 5	4	4. 5000 4. 6250 4. 7500 4. 8750 5. 0000	. 003182 . 003226 . 003269 . 003312 . 003354
1. 0000 1. 0625 1. 1250 1. 1875 1. 2500	. 001500 . 001531 . 001560 . 001588 . 001616	5. 0000 5. 1250 5. 2500 5. 3750 5. 5000	.002565 .002586 .002607 .002628 .002648	1/4 17/64 19/64	36 32	80 72	. 2500 . 2656 . 2778 . 2812 . 2969	.000750 .000773 .000791 .000795 .000817	13/8 17/16 11/2	6	14	1. 3750 1. 4286 1. 4375 1. 5000 1. 5385	. 001759 . 001793 . 001798 . 001837 . 001861	51/8 51/4 53/8 51/2 55/8		5. 1250 5. 2500 5. 3750 5. 5000 5. 6250	. 003396 . 003437 . 003478 . 003518
1. 3125 1. 3750 1. 4375 1. 5000 1. 5625	. 001642 . 001668 . 001693 . 001717 . 001741	5. 6250 5. 7500 5. 8750 6. 0000 7. 0000	.002668 .002687 .002707 .002726 .002869	5/16 21/64 11/32	28 27	64 60	. 3125 . 3214 . 3281 . 3333 . 3438	. 000839 . 000850 . 000859 . 000866 . 000880	19/16 15/8 		12	1.5625 1.6250 1.6667 1.6875 1.7391	. 001875 . 001912 . 001936 . 001949 . 001978	534 578 6 612 7		5. 7500 5. 8750 6. 0000 6. 5000 7. 0000	. 003597 . 003636 . 003674 . 003824 . 003969
1. 6250 1. 6875 1. 7500 1. 8125 1. 8750	. 001764 . 001786 . 001808 . 001829 . 001850	8. 0000 9. 0000 10. 0000 12. 0000 14. 0000	.003000 .003120 .003232 .003434 .003615	23/64 3/8 25/64 13/32	24	56	. 3571 . 3594 . 3750 . 3906 . 4062	.000896 .000899 .000919 .000937 .000956	13/4 -113/16 -17/8	5	11	1.7500 1.8000 1.8125 1.8182 1.8750	. 001984 . 002012 . 002019 . 002023 . 002054	7½ 8 8½ 9 9½		7. 5000 8. 0000 8. 5000 9. 0000 9. 5000	. 004108 . 004243 . 004373 . 004500 . 004623
		16. 0000 18. 0000 20. 0000 24. 0000	. 003780 . 003931 . 004072 . 004327	27/64 7/16	20	48	. 4167 . 4219 . 4375 . 4500 . 4545	.000968 .000974 .000992 .001006 .001011	1 ¹⁵ / ₁₆ 2 2 ¹ / ₈ -2 ¹ / ₄	41/2	10 9	1. 9375 2. 0000 2. 1250 2. 2222 2. 2500	. 002088 . 002121 . 002187 . 002236 . 002250	11 11½		10.0000 10.5000 11.0000 11.5000 12.0000	. 004743 . 004861 . 004973 . 005087

Threads per inch	$0.015\sqrt[3]{p^2}$	Threads per inch	$0.015\sqrt[3]{p^2}$	Threads per inch	$0.015\sqrt[3]{p^2}$	Threads per inch	$0.015\sqrt[3]{p^2}$	Threads per inch	$0.015\sqrt[3]{p^2}$	Threads per inch	$0.015\sqrt[3]{p^2}$	Threads per inch	$0.015\sqrt[3]{p^2}$
80 72 64 60 56	in. 0.000808 .000867 .000938 .000979 .001025	50 48 44 42 40	in. 0.001105 .001136 .001204 .001241 .001282	36 34 32 30 28	in. 0. 001376 . 001429 . 001488 . 001554 . 001627	27 26 24 22 20	in. 0. 001667 . 001709 . 001803 . 001910 . 002036	18 16 14 13 12	in. 0.002184 .002362 .002582 .002713 .002862	11½ 11 10 9 8	in. 0.002944 .003033 .003232 .003467 .003750	7 6 51/2 5 41/2 4	in. 0.004099 004543 .004814 .005130 .005503 .005953

[•] For class 2A, C=1. For other classes, values of C are given in the text, pp. 21 and 22, Part I. • For example: $L_*=0.5000$ is equivalent to one diameter for the $\frac{1}{2}$ -in. size, 9 pitches for 18 threads per inch, and 20 pitches for 40 threads per inch.

"(b) Length of engagement.—The pitch diameter tolerances specified in table III.10 in this Supplement for the UNC, UNF, 4UN, 6UN, and 8UN series are based on a length of engagement equal to the basic major (nominal) diameter and are applicable for lengths of engagement up to 1½ diameters.

Where the length of engagement exceeds that for which these tolerances are applicable, the pitch diameter tolerances should be computed from the formula (table III.10) values for the standard lengths of engagement of one diameter, as follows: for lengths of engagement over 1½ to 3 diameters, the pitch diameter tolerances are 125 percent of the formula values; and for lengths of engagement over 3 diameters, the tolerances are 150 percent of the formula values.

The pitch diameter tolerances specified in table III.10 in this Supplement for the UNEF, 12UN, 16UN, 20UN, 28UN, and 32UN series are based on a length of engagement of 9 pitches and are applicable for lengths of engagement up to 15

pitches.

Where the length of engagement exceeds that for which these tolerances are applicable, the pitch diameter tolerances should be computed from the formula (table III.10) values for the standard lengths of engagement of 9 pitches, as follows: for lengths of engagement over 15 to 30 pitches, the pitch diameter tolerances are 125 percent of the formula values; and for lengths of engagement over 30 pitches, the tolerances are 150 percent of the formula values."

p.22, (c) Limits of size: Revise to read:

"(c) Limits of size.^{5a}—With respect to the pitch diameter limits of size, it is intended, except as hereinafter qualified, that no portion of the complete thread be permitted to project beyond the envelope defined by the maximum-material limits on the one hand, or beyond that defined by the minimum-material limits on the other, and thus be outside of the tolerance zone as illustrated

in figures III.3 and III.4, Part I.5b

"Diameter equivalents of variations in lead, uniformity of helix, and flank angles are in the direction toward maximum material. Also included in pitch-diameter limits are other variations from size and profile, such as taper, out-of-round, and surface defects. Thus the maximum-material pitch diameter limits are a limitation of the virtual diameter (effective size) and are so specified herein for all thread classes. It is intended that diameter equivalents of deviations in any given element except pitch diameter should not exceed one-half of the pitch-diameter tolerance. Values are given in table III.11, p. 33 in this Supplement, for deviations in lead and half-angle equivalent to one-half of pitch diameter tolerances. Flank angle equivalents should be based on a depth of thread engagement of 5H/8.

"Variations in taper and roundness of the pitch diameter, together with variations of the pitch diameter as a whole, may be in the direction of minimum material and thus the minimummaterial pitch diameter limit may be specified as a limitation of the pitch diameter as a single element. However, in view of the interrelation of the pitch diameter, variations in lead and flank angle, etc., together with practical considerations relating to established production processes, product application and inspection procedures, except for class 3A it is customary to base acceptance at the minimum-material condition (minimum pitch diameter of the external thread and maximum pitch diameter of the internal thread) on threaded plug and ring gaging, with gages to the thread form and length specified in Section VI, Part I, for fasteners and some custom threaded parts where design requirements are fulfilled. See 'Dimensional acceptability of threads,' p. 99 in this Supplement."

pp. 23 and 26, 4. Coated Threads: Revise to read:

"4. Coated Threads.—It is not within the scope of this standard to make recommendations for thickness of, or to specify limits for, coatings. However, it will aid mechanical interchangeability if certain principles are followed whenever

conditions permit.

"It is desirable that the finished threads be within the limits of size established herein. To that end, external threads should not exceed the basic size after coating and internal threads should not be below the basic size after coating. However, it is recognized that there are some commonly used processes, such as hot-dip galvanizing, which are firmly established, and threads coated by such processes do not fall within the scope of

this recommendation.

"(a) Guide for relieving external threads.—Class 2A provides both a tolerance and an allowance. Many requirements are such as those for coatings deposited by electroplating processes. In general the 2A allowance provides adequate relief for coatings up to a minimum thickness ^{5c} of one-sixth of the 2A allowance, inasmuch as there are variables in thickness of coating and symmetry of coating resulting from commercial processes. See paragraph 2 (bottom col. 1, p. 23, Part I). It should be stressed that threads after coating should be accepted by a basic size GO thread ring gage or equivalent functional gage.

"Class 1A provides an allowance, but in this case the allowance is maintained for both coated and uncoated product. Special provisions before

So The maximum allowance at the maximum material condition of six times the minimum coating thickness is derived from dividing the deposit on the flank of the thread hy the sine of the 30 degree half angle and multir lying the result by two for the diameter equivalent, then adding 50 percent for the plater's tolerance. The minimum allowance at the minimum material condition of four times the minimum coating thickness is two-thirds the maximum allowance, inasmuch as the thickness of coating will bring the limits of size within standard limits with the additional allowance for the plater's tolerance omitted.

coating are necessary where (1) the design requires that the class 2A allowance be available after coating, or (2) the design requires that an allowance be provided for class 3A threads, or (3) the thickness of coating is too great to be accomodated by the class 2A allowance. In these cases it is recommended that the limits of size before coating be reduced by the amount of the 2A allowance whenever that allowance is adequate, or that the maximum limits of the major and pitch diameters be decreased by an amount equal to six times the minimum coating thickness and the minimum limits be decreased by an amount equal to four times the minimum coating thickness.

"(b) Internal threads.—No provision is made for relieving internal threads as coatings on such threads are not generally required. Further, it is very difficult to deposit a significant thickness of coating on the flanks of internal threads. However, where a specific thickness of coating is required in an internal thread, it is suggested that the thread be relieved so that the thread after coating will be accepted by a GO thread plug gage of basic size. It is recommended that (1) the limits of size before coating be increased by the amount of the 2A allowance whenever that allowance is adequate, or (2) the minimum limits of the minor and pitch diameters be increased by an amount equal to six times the minimum coating thickness and the maximum limits be increased by an amount equal to four times the minimum coating thickness.'

"5. METHOD OF DESIGNATING A SCREW THREAD

p. 26, Subsection 5. METHOD OF DESIGNATING A SCREW THREAD: Revise to read

"1. Basic Method of Designating.—The basic method of designating a screw thread is used where the standard tolerances or limits of size based on the standard length of engagement are applicable as indicated in par. (b) Length of engagement, p. 16 in this Supplement. The designation specifies in sequence the nominal size, number of threads per inch, thread series symbol, and thread class symbol. The nominal size is the basic major diameter and is specified as the fractional diameter, screw number, or their decimal equivalent. Where decimal equivalents are used for size call-out they shall be shown in four place decimals, omitting the cipher in the fourth place, for fractional sizes and three place decimals for numbered sizes. They shall be interpreted as being nominal size designations only and shall have no dimensional significance beyond the fractional size or number designation.

The thread series symbol is UNC, UNF, UNEF, or UN for any of the series shown in table III.2 in this Supplement and UNS for any other diameter-pitch combination having tolerances to

Unified formulation.

as follows:

The thread class symbol is 1A, 1B, 2A, 2AG, 2B, 3A, or 3B where the suffixes A and B relate to external and internal threads respectively. Suffix G in the 2AG symbol indicates that the 2A dimensions are to be met after coating. See designation on p. 18 of this Supplement.

Examples:

-Nominal size (fractional diameter or screw number with decimal equivalent of either being optional) -Number of threads per inch -Thread series symbol (see dimensional tables) -Thread class symbol (see (b) Screw-thread classes, p. 23, Part I) ½-20 UNC-2A or .250-20 UNC-2A 10-32 UNF-2A or .190-32 UNF-2A $\frac{7}{16}$ -20 UNF-2A or .4375-20 UNF-2A %-20 UNF-3A or .4375-20 UNF-3A

For uncoated standard series threads (table III.2) in this Supplement) these designations may

optionally be supplemented by the addition of the pitch diameter limits of size.

Example:

14-20 UNC-2A PD .2164-.2127 (Optional for uncoated threads)

Note. PD limits are those in table III.10 in this Supplement for class 2A.

UNS threads and threads having special length of engagement require certain additional information as shown on pp. 19 and 20 in this Supplement.

'(a) Designations for coated (or plated) threads.— Specification on drawings of the before and after coating dimensions for screw threads is sometimes dictated by an engineering or production consideration that the size before and after coating be controlled. This results from coated screw threads having two stages of design; the before coating stage and the after coating stage. The threaded product may be produced by a supplier and coated by a user. In this case, it is necessary that a clear understanding of the coating requirements and the allowance for coating buildup be agreed upon by both supplier and user.

The before coating dimensions have a definite bearing on the strength of the screw threads. The after coating dimensions must allow the threads to assemble with their mating threads, as intended.

Recommended methods for designating coated threads under various conditions are described in

the following:

For coated (or plated) class 1A external threads the max major and max pitch diameters may

optionally be given followed by the words "AFTER COATING", thereby indicating that the thread before coating must have special provisions to allow for coating thickness. The major and pitch diameter limits of size before coating (calculated in accordance with paragraph 4, coated threads, p. 16 in this Supplement) shall be given followed by the words "BEFORE COATING".

Example: ½–20 UNC–1A MAJOR DIA .2489 MAX PD .2164 MAX AFTER COATING (Optional)

Note. Major and PD limits are those in table III.10 in this Supplement for class 1A.

MAJOR DIA .2478-.2356 SPL PD .2153-.2097 SPL BEFORE COATING

Note. Major and PD limits correspond to those in table III.10 in this Supplement for class 1A minus the allowance.

For coated (or plated) class 2A external threads the basic (max) major and basic (max) pitch diameters shall be given followed by the words "AFTER COATING". The major and pitch diameter limits of size before coating shall also be given followed by the words "BEFORE COATING".

Example: 5d ¾-10 UNC-2A

MAJOR DIA .7500 MAX AFTER COATING PD .6850 MAX

Note. Major and PD limits are equal to basic and correspond to those in table III.10 in this Supple-

ment for class 3A.

MAJOR DIA .7482-.7353
BEFORE COATING
PD .6832-.6773
BEFORE COATING

Note. Major and PD limits are those in table III.10 in this Supplement for class 2A.

Certain applications require an allowance for rapid assembly to permit application of the proper lubricant or for residual growth due to high temperature expansion. In these applications, when the thread is coated and the 2A allowance is not permitted to be consumed by such coating, the thread class symbol is qualified by the addition of the letter G (symbol for allowance) following the class symbol and the max major and max pitch diameters are reduced below basic size by

the amount of the 2A allowance and followed by the words "AFTER COATING", thereby ensuring that the allowance is maintained. The thread before coating must have special provisions to allow for coating thickness. The major and pitch diameter limits of size before coating (calculated in accordance with paragraph 4, p. 16 in this Supplement) shall also be given followed by the words "BEFORE COATING".

Example: ¾-10 UNC-2AG

MAJOR DIA .7482 MAX AFTER COATING
PD .6832 MAX
NOTE. Major and PD limits are those in table III.10 in this Supplement for class 2A. MAJOR DIA .7464-.7335 SPL BEFORE COATING

PD .6814-.6755 SPL

Note. Major and PD limits correspond to those in table III.10 in this Supplement for class 2A minus the allowance.

For coated (or plated) class 3A external threads, the max major and max pitch diameters may op-

54 Threads accepted to class 2A limits before coating are accepted after coating by basic size thread gages. The allowance given in the dimensional tables for class 2A threads is sufficient to allow for a limited amount of coating as described in paragraph 4, Coated threads, p. 16 in this Supplement, but if a greater coating thickness is required it will be necessary to calculate the before coating limits in accordance with paragraph 4, p. 16 in this Supplement. Supplement.

tionally be given followed by the words "AFTER COATING", thereby indicating that the thread before coating must have special provisions to allow for coating thickness. The major and pitch diameter limits of size before coating (calculated in accordance with paragraph 4, p. 16 in this Supplement) shall be given followed by the words "BEFORE COATING".

Example: ½-28 UNF-3A

MAJOR DIA .2500 MAX AFTER COATING (Optional)

Note. Major and PD limits are those in table III.10 in this Supplement for class 3A.

MAJOR DIA .2488-.2427 SPL PD .2256-.2235 SPL

For coated (or plated) class 1B, 2B, or 3B internal threads the min minor diameter and min pitch diameter may optionally be given followed by the words "AFTER COATING". The minor and

pitch diameter limits of size before coating (calculated in accordance with paragraph 4, p. 16 in this Supplement) shall be given followed by the words "BEFORE COATING".

Examples: ^{5e} ½–20 UNC–1B

MINOR DIA .196 MIN AFTER COATING (Optional)
PD .2175 MIN
MINOR DIA .197-.208 SPL BEFORE COATING
PD .2186-.2259 SPL

%-10 UNC-2B MINOR DIA .642 MIN PD .6850 MIN MINOR DIA .644-.665 SPL PD .6868-.6945 SPL BEFORE COATING

%-28 UNF-3B MINOR DIA .2110 MIN PD .2268 MIN MINOR DIA .2122-.2198 SPL PD .2280-.2308 SPL BEFORE COATING

"(b) Method of designating left hand threads.— Unless otherwise specified, threads are right-hand; a left-hand thread shall be designated LH as follows:

1/4-20 UNC-3A-LH

"(c) Method of designating UNS threads (Unified tolerance formulations).—UNS threads have the basic form of designation set out above, supplemented always by the limits of size.

Examples: ½-24 UNS-3A

MAJOR DIA .2500-.2428 PD .2229-.2201

.495–20 UNS–3A MAJOR DIA .4950–.4869 PD .4625–.4593

1.200-10 UNS-2B MINOR DIA 1.092-1.113 PD 1.1350-1.1432

"(d) Method of designating threads having special length of engagemen". Where a standard series thread has a special length of engagement differing from that for which the standard pitch diameter tolerances are applicable, as indicated in paragraph (b), Length of engagement, p. 16 in this Supplement, the thread class symbol is qualified by the addition of the letters SE (special engagement) preceding the class symbol. The specification of the special pitch diameter limits of size and the length of engagement (LE) rounded to a two-place decimal are a requirement.

Examples: ½-13 UNC-SE2A PD .4485-.4431 LE 1.00

> ¼-24 UNS-SE3A MAJOR DIA .2500-.2428 PD .2229-.2198 LE .88

"(e) Method of designating threads having modified crests.—It is occasionally necessary to modify the limits of size of the major diameter of an external thread or the minor diameter of an internal thread within the maximum material limits established for standard series and special threads in order to fit a specific purpose but without change in class of thread or pitch diameter limits. (It should be noted that standard pitch diameter gages may be used to accept such threads). Such threads shall be specified with the established thread designation followed by a statement of the modified diameter limits and the designation 'MOD'.

^{5e} The after coating limits for all of the examples given are the minor and PD limits in table III.10 in this Supplement for the respective class of thread. The before coating limits for all of the examples above are calculated using the 2A allowance where it is suitable for a minimum coating (or plating) thickness of 0.0002 in. on the thread flanks.

Examples: %-24 UNF-3A MOD MAJOR DIA .3720-.3648 MOD

> 1½–10 UNS–3B MOD MINOR DIA 1.398–1.409 MOD PD 1.4350–1.4412

2. Designations for Acceptance of Threads by Other Than General Practice.—Threads to be accepted by gaging practices deviating from those outlined in Part I, Section VI, p. 118, require additional notes in the thread designation. The recommended methods of designating these threads

are described in the following:

(a) Method of designating class 3A for LO functional (virtual) diameters.—Where it is desired to gage the minimum pitch diameter limits of class 3A external threads as functional (virtual) diameter, instead of as specified in Section VI, the words "LO FUNCTIONAL DIAMETER" following the pitch diameter limits should be included in addition to the information normally given, as follows:

%–24 UNF–3A PD .3468–.3430 LO FUNCTIONAL DIAMETER

(b) Method of designating class 2A for LO pitch diameters.—Where it is desired to gage the minimum pitch diameter limits of class 2A external threads as a single element instead of as specified in Section VI, the words "LO PITCH DIAMETER" following the pitch diameter limits should be included in addition to the information normally given, as follows:

%–16 UNC–2A PD .3331–.3287 LO PITCH DIAMETER

3. Designations of Other Threads.—Threads having tolerances that do not conform to Unified formulation, and threads having multiple starts or special form, also require additional data in the thread designation. The recommended methods of designating these threads are described in the

following:

"(a) Method of designating threads having tolerances not to Unified formulation.—If a standard series thread is altered in any respect other than revised pitch diameter limits for a special length of engagement, the modification of crests or the adjustment of the limits of size to accommodate coating, as shown above, it is designated in accordance with the following examples:

%6-24 UNIFIED FORM SPECIAL-EXTS

MAJOR DIA .4340-.4280 SPL

PD .4065-.4025 SPL

LE .38

½-13 UNIFIED FORM SPECIAL-INT⁵¹ MINOR DIA .424-.434 SPL PD .4500-.4580 SPL LE .50 "(b) Method of designating multiple-start threads.—If a thread is required with a multiple start, it is designated by specifying in sequence the nominal size, pitch (in decimals or threads per inch), and lead (in decimals or fractions) as follows:

Example: 34-.0625P-.1875L-UNIFIED FORM SPECIAL-EXT⁵¹ MAJOR DIA .7485-.7391 PD .7079-.7003 SPL

LE .75

Optional for first line of above designation: 34-16-36L-UNIFIED FORM SPECIAL-EXT or 34-16-UNIFIED FORM SPECIAL-3 START-EXT

"(c) Method of designating special form threads.—
If a thread for design consideration requires a deviation from Unified standard thread contour and is not covered by another recognized standard, such as when the detail of the root differs from that for the standard thread form, the designation shall neither include the letters 'UN' nor the word 'UNIFIED' but shall be as follows:

Example: %-18 SPECIAL FORM-EXT ^{5t}
THREAD ANGLE 60°
MAJOR DIA .8750-.8668
PD .8384-.8343
MAX MINOR DIA .8068 (as gaged)
LE 69

Note. The 'as gaged' diameter describes the diameter of the GO thread ring gage."

(d) Designations for long length of engagement.—
In the assembly of threads in mating parts, the length of engagement varies according to the design requirements. It should be noted that the length of engagement is not necessarily the same as the full thread length provided on the part, but is the length of assembled thread in the mating parts

In some instances, the length of engagement may be longer than that which is applicable to the tolerances for the standard length of engagement and additional precautions are necessary to assure proper assembly. In the case of custom parts, this may be taken into consideration when designing the parts. The proper pitch diameter tolerance may be obtained from the step tables, Section IV, or computed from the formulas, and the length of engagement shall be included in the designation as specified above.

pp. 27 to 68, tables III.10, III.11, III.12, and III.13: Revise to read as follows:

(Next text on p. 91.)

M Where the thread designation is used in text or is shown on a drawing, and a leader line does not indicate the specific position, then add EXT or INT to the designation.

Table III.10.—Standard series limits of size—Unified screw threads

						External	a							Internal	a		
Nominal size and threads per inch	Series designa- tion	Class	Allow-	Major	diamete	r limits	Pitch	diameter	limits	Minor diam-	Class	Minor eter li	diam- mits	Pitch	diamete	r limits	Major diam- eter
p = 2				Max b	Min	Min c	Max b	Min	Toler- ance	eter d		Min	Max	Min	Max	Toler- ance	Min
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
0-80 or . 060-80	UNF	2A 3A	in, 0.0005 .0000	in, 0. 0595 . 0600	in. 0.0563 .0568	in.	in, 0. 0514 . 0519	in. 0.0496 .0506	in. 0.0018 .0013	in. 0. 0442 . 0447	2B 3B	in. 0.0465 .0465	in. 0.0514 .0514	in, 0.0519 .0519	in. 0.0542 .0536	in. 0.0023 .0017	in. 0.0600
1-64 or . 073-64	UNC	2A 3A	.0006	. 0724 . 0730	. 0686 . 0692		. 0623	. 0603 . 0614	. 0020 . 0015	. 0532 . 0538	2B 3B	. 0561 . 0561	. 0623	. 0629 . 0629	. 0655 . 0648	. 0026 . 0019	. 0730
1–72 or . 073–72	UNF	2A 3A	.0006	. 0724 . 0730	. 0689 . 0695		. 0634 . 0640	. 0615 . 0626	. 0019 . 0014	. 0554 . 0560	2B 3B	. 0580	. 0635 . 0635	. 0640 . 0640	. 0665	. 0025	. 0730
2-56 or . 086-56	UNC	2A 3A	.0006	. 0854	. 0813		. 0738	. 0717 . 0728	. 0021	. 0635	2B 3B	. 0667	. 0737	. 0744	. 0772	. 0028	. 0869
2-64 or . 086-64	UNF	2A 3A	. 0006	. 0854	. 0816		. 0753	. 0733 . 0744	. 0020	. 0662	2B 3B	. 0691	. 0753	. 0759	. 0786	.0027	. 0860
3–48 or . 099-48	UNC	2A 3A	. 0007	. 0983	. 0938 . 0945		. 0848	. 0825 . 0838	. 0023	. 0727	2B 3B	. 0764	. 0845	. 0855	.0885	. 0030	. 0990
3-56 or . 099-56	UNF	2A 3A	. 0007	. 0983	. 0942		. 0867	. 0845	. 0022	. 0764	2B 3B	. 0797	. 0865	. 0874	. 0902	. 0028	. 0990
4–40 or . 112-40	UNC	2A 3A	. 0008	. 1112	. 1061		. 0950	. 0925	. 0025	. 0805	2B 3B	. 0849	. 0939	. 0958	. 0991	. 0033	. 1120
4 -48 or . 112-48	UNF	2A 3A	. 0007	. 1113	. 1068		. 0978	. 0954	. 0024	. 0857	2B 3B	. 0894	. 0968	. 0985	. 1016	. 0031	. 1120
5-40 or . 125-40	UNC	2A 3A	.0008	. 1242	. 1191		. 1080	. 1054	. 0026	. 0935	2B 3B	. 0979	. 1062	. 1088	. 1121	. 0033	. 1250
5-44 or . 125-44	UNF	2A 3A	. 0007	. 1243	. 1195		. 1095	. 1070	. 0025	. 0964	2B 3B	. 1004	. 1079	. 1102	. 1134	. 0032	. 1250
6-32 or . 138-32	UNC	2A 3A	. 0008	. 1372	. 1312		. 1169	. 1141	. 0028	. 0989	2B 3B	. 104	. 114	. 1177	. 1214	. 0037	. 1380
6-10 or . 138-40	UNF	2A 3A	. 0008	. 1372	. 1321		. 1210	. 1184	. 0026	. 1065	2B 3B	. 111	. 119	. 1218	. 1252	. 0034	. 1380
8–32 or . 164–32	UNC	2A 3A	. 0009	. 1631	. 1571		. 1428	. 1399	. 0029	. 1248	2B 3B	. 130	. 139	. 1437	. 1475	.0038	. 1640
8-36 or . 164-36	UNF	2A 3A	. 0008	. 1632	. 1577		. 1452	. 1424	.0028	. 1291	2B 3B	. 134	. 142	. 1460	. 1496	. 0036	. 1640
10-24 or 190-24	UNC	2A 3A	. 0010	. 1890	. 1818		. 1619	. 1586	. 0033	. 1379	2B 3B	. 145	. 156	. 1629	. 1672	. 0043	. 1900
10-32 or . 190-32	UNF	2A 3A	. 0009	. 1891	. 1831		. 1688	. 1658	.0030	. 1508	2B 3B	. 156	. 164	. 1697	. 1736	.0039	. 1900
12-24 or . 216-24	UNC	2A 3A	. 0010	. 2150	. 2078		. 1879	. 1845	. 0034	. 1639	2B 3B	. 171	. 181	. 1889	. 1933	.0044	. 2160
12-28 or . 216-28	UNF	2A 3A	. 0010	. 2150	. 2085		. 1918	. 1886	. 0032	. 1712	2B 3B	. 177	. 186	. 1928	. 1970	.0042	. 2160
12-32 or . 216-32	UNEF	2A 3A	. 0009	. 2151	. 2091		. 1948	. 1917	.0024	. 1768	2B 3B	. 182	. 190	. 1957	. 1998	. 0041	. 2160
1/4-20 or . 250-20	UNC	1A 2A 3A	.0011 .0011 .0000	.2489 .2489 .2500	. 2367 . 2408 . 2419	. 2367	. 2164 . 2164 . 2175	. 2108 . 2127 . 2147	. 0056 . 0037 . 0028	. 1876 . 1876 . 1887	1B 2B 3B	. 196 . 196 . 1960	. 207 . 207 . 207 . 2067	.2175 .2175 .2175	. 2248 . 2224 . 2211	.0073	. 2500 . 2500 . 2500
1/4-28 or . 250-28	UNF	1A 2A 3A	. 0010 . 0010 . 0000	. 2490 . 2490 . 2500	. 2392 . 2425 . 2435		. 2258 . 2258 . 2268	. 2208 . 2225 . 2243	.0050 .0033 .0025	. 2052 . 2052 . 2062	1B 2B 3B	. 211 . 211 . 2110	. 220 . 220 . 2190	. 2268 . 2268 . 2268	. 2333 . 2311 . 2300	. 0065 . 0043 . 0032	. 2500 . 2500 . 2500
1/4-32 or . 250-32	UNEF	2A 3A	.0010	. 2490	. 2430		. 2287	. 2255	. 0032	. 2107	2B 3B	. 216	. 224	. 2297	. 2339	. 0042	. 2500
5/16~18 or 3125–18	UNC	1A 2A 3A	. 0012 . 0012 . 0000	. 3113 . 3113 . 3125	. 2982 . 3026 . 3038	. 2982	. 2752 . 2752 . 2764	. 2691 . 2712 . 2734	. 0061 . 0040 . 0030	. 2431 . 2431 . 2443	1B 2B 3B	. 252 . 252 . 2520	. 265 . 265 . 2630	. 2764 . 2764 . 2764	. 2843 . 2817 . 2803	. 0079 . 0053 . 0039	. 3123 . 3124 . 3124
5/16-20 or 3125-20	UN	2A 3A	.0012	. 3113	. 3032		. 2788	. 2748 . 2770	.0040	. 2500	2B 3B	. 258 . 2580	. 270	.2800	. 2852	. 0052	. 312
5/16-24 or 3125-24	UNF	1A 2A 3A	. 0011 . 0011 . 0000	. 3114 . 3114 . 3125	. 3006 . 3042 . 3053		. 2843 . 2843 . 2854	. 2788 . 2806 . 2827	. 0055 . 0037 . 0027	. 2603 . 2603 . 2614	1B 2B 3B	. 267 . 267 . 2670	. 277 . 277 . 2754	. 2854 . 2854 . 2854	. 2925 . 2902 . 2890	. 0071 . 0048 . 0036	.312 .312 .312
5/16-28 or 3125-28	UN	2A 3A	. 0010	.3115	. 3050		. 2883	. 2849	. 0034	. 2677	2B 3B	. 274	. 282	. 2893	. 2937	. 0044	. 312

Table III.10.—Standard series limits of size—Unified screw threads—Continued

						External	a							Internal	a		
Nominal size and threads per inch	Series designa- tion	Class	Allow-	Major	diamete	r limits	Pitch (- liameter	limits	Minor	Class	Minor eter l		Pitch	diameter	limits	Major diam- eter
Tree men				Max b	Min	Min *	Max b	Min	Toler- ance	eter		Min	Max	Min	Max	Toler- ance	Min
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
5/16-32 or 3125-32	UNEF	2A 3A	in. . 0010 . 0000	in. . 3115 . 3125	in. . 3055 . 3065	in.	in. . 2912 . 2922	in. . 2880 . 2898	in. .0032 .0024	in. . 2732 . 2742	2B 3B	in. . 279 . 2790	in. . 286 . 2847	in. . 2922 . 2922	in. . 2964 . 2953	in. . 0042 . 0031	in. . 312 . 312
³ %-16 or . 375-16	UNC	1A 2A 3A	. 0013 . 0013 . 0000	. 3737 . 3737 . 3750	. 3595 . 3643 . 3656	. 3595	. 3331 . 3331 . 3344	3266 3287 3311	. 0065 . 0044 . 0033	. 2970 . 2970 . 2983	1B 2B 3B	. 307 . 307 . 3070	. 321 . 321 . 3182	. 3344 . 3344 . 3344	. 3429 . 3401 . 3387	.0085 .0057 .0043	. 375 . 375 . 375
3/8-20 or . 375-20	UN	2A 3A	.0012	. 3738	. 3657 . 3669		. 3413	. 3372	.0041	. 3125	2B 3B	. 321	. 332	. 3425	. 3479	.0054	. 375
36-24 or . 375-24	UNF	1A 2A 3A	. 0011 . 0011 . 0000	. 3739 . 3739 . 3750	. 3631 . 3667 . 3678		. 3468 . 3468 . 3479	. 3411 . 3430 . 3450	. 0057 . 0038 . 0029	. 3228 . 3228 . 3239	1B 2B 3B	. 330 . 330 . 3300	. 340 . 340 . 3372	. 3479 . 3479 . 3479	. 3553 . 3528 . 3516	. 0074 . 0049 . 0037	. 375 . 375 . 375
3/8-28 or . 375-28	UN	2A 3A	. 0011	. 3739	. 3674 . 3685		. 3507	. 3471	. 0036	. 3301	2B 3B	. 336	. 345	. 3518	. 3564	.0046	. 375
3/8-32 or . 375-32	UNEF	2A 3A	. 0010	. 3740	.3680		. 3537	. 3503 . 3522	.0034	. 3357	2B 3B	. 341	. 349	. 3547	. 3591	. 0044	. 378
⁷ / ₁₆ –14 or 4375–14	UNC	1A 2A 3A	. 0014 . 0014 . 0000	. 4361 . 4361 . 4375	. 4206 . 4258 . 4272	. 4206	. 3897 . 3897 . 3911	. 3826 . 3850 . 3876	. 0071 . 0047 . 0035	. 3485 . 3485 . 3499	1B 2B 3B	. 360 . 360 . 3600	. 376 . 376 . 3717	. 3911 . 3911 . 3911	. 4003 . 3972 . 3957	. 0092 . 0061 . 0046	. 43
7∕16-16 or 4375-16	UN	2A 3A	.0014	. 4361	. 4267 . 4281		. 3955	. 3909	. 0046	. 3594	2B 3B	. 370	. 384	. 3969	. 4028	.0059	. 43
⁷ 16-20 or 4375-20	UNF	1A 2A 3A	. 0013 . 0013 . 0000	. 4362 . 4362 . 4375	. 4240 . 4281 . 4294		. 4037 . 4037 . 4050	. 3974 . 3995 . 4019	. 0063 . 0042 . 0031	. 3749 . 3749 . 3762	1B 2B 3B	. 383 . 383 . 3830	. 395 . 395 . 3916	. 4050 . 4050 . 4050	. 4131 . 4104 . 4091	.0081 .0054 .0041	. 43
7∕16−28 or 4375−28	UNEF	2A 3A	. 0011	. 4364	. 4299 . 4310		. 4132	. 4096 . 4116	. 0036	. 3926	2B 3B	. 399	. 407 . 4051	. 4143	. 4189	. 0046	. 43
7∕16-32 or 4375-32	UN	2A 3A	.0010	. 4365	. 4305 . 4315		. 4162	. 4128 . 4147	. 0034	.3982	2B 3B	. 404 . 4040	. 411	. 4172 . 4172	. 4216 . 4205	. 0044	. 43
½-13 or . 500-13	UNC	1A 2A 3A	. 0015 . 0015 . 0000	. 4985 . 4985 . 5000	. 4822 . 4876 . 4891	. 4822	. 4485 . 4485 . 4500	. 4411 . 4435 . 4463	. 0074 . 0050 . 0037	. 4041 . 4041 . 4056	1B 2B 3B	. 417 . 417 . 4170	. 434 . 434 . 4284	. 4500 . 4500 . 4500	. 4597 . 4565 . 4548	.0097 .0065 .0048	. 500
½-16 or . 500-16	UN	2A 3A	.0014	. 4986	. 4892 . 4906		. 4580 . 4594	. 4533 . 4559	. 0047	. 4219 . 4233	2B 3B	. 432	. 446	. 4594 . 4594	. 4655	. 0061	. 50
½-20 or . 500-20	UNF	1 A 2 A 3 A	. 0013 . 0013 . 0000	. 4987 . 4987 . 5000	. 4865 . 4906 . 4919		. 4662 . 4662 . 4675	. 4598 . 4619 . 4643	. 0064 . 0043 . 0032	. 4374 . 4374 . 4387	1B 2B 3B	. 446 . 446 . 4460	. 457 . 457 . 4537	. 4675 . 4675 . 4675	. 4759 . 4731 . 4717	.0084 .0056 .0042	. 500
½-28 or , 500-28	UNEF	2A 3A	.0011	. 4989	. 4924		. 4757	. 4720 . 4740	. 0037	. 4551 . 4562	2B 3B	. 461 . 4610	. 470	. 4768	. 4816 . 4804	. 0048	. 50
½-32 or . 500-32	UN	2A 3A	.0010	. 4990	. 4930 . 4940		. 4787	. 4752 . 4771	. 0035	. 4607	2B 3B	. 466 . 4660	. 474	. 4797 . 4797	. 4842	. 0045	. 50
%16-12 or 5625-12	UNC	1A 2A 3A	. 0016 . 0016 . 0000	. 5609 . 5609 . 5625	. 5437 . 5495 . 5511	. 5437	. 5068 . 5068 . 5084	. 4990 . 5016 . 5045	. 0078 . 0052 . 0039	. 4587 . 4587 . 4603	1B 2B 3B	. 472 . 472 . 4720	. 490 . 490 . 4843	. 5084 . 5084 . 5084	. 5186 . 5152 . 5135	.0102 .0068 .0051	. 56
%16-16 or . 5625-16	UN	2A 3A	. 0014	. 5611	. 5517		. 5205	. 5158	.0047	. 4844	2B 3B	. 495 . 4950	. 509	. 5219 . 5219	. 5280	.0061	. 56
%16-18 or . 5625-18	UNF	1A 2A 3A	. 0014 . 0014 . 0000	. 5611 . 5611 . 5625	. 5480 . 5524 . 5538		. 5250 . 5250 . 5264	. 5182 . 5205 . 5230	. 0068 . 0045 . 0034	. 4929 . 4929 . 4943	1B 2B 3B	. 502 . 502 . 5020	. 515 . 515 . 5106	. 5264 . 5264 . 5264	. 5353 . 5323 . 5308	. 0089 . 0059 . 0044	. 56
%6-20 or . 5625-20	UN	2A 3A	. 0013	. 5612	. 5531		. 5287	. 5245	.0042	. 4999	2B 3B	. 508	. 520	. 5300	. 5355	. 0055	. 56
%16-24 or 5625-24	UNEF	2A 3A	.0012	. 5613	. 5541		. 5342	. 5303	.0039	. 5102	2B 3B	. 517	. 527	. 5354	. 5405	.0051	. 56
%16-28 or 5625-28	UN	2A 3A	.0011	. 5614	. 5549		. 5382	. 5345	. 0037	. 5176	2B 3B	. 524	. 532	. 5393	. 5441	. 0048	. 56
%16-32 or . 5625-32	UN	2A 3A	.0010	. 5615	. 5555		. 5412	. 5377	. 0035	. 5232	2B 3B	. 529 . 5290	. 536	. 5422	. 5467	. 0045	. 56
5%-11 or . 625-11	UNC	1A 2A 3A	. 0016 . 0016 . 0000	. 6234 . 6234 . 6250	. 6052 . 6113 . 6129	. 6052	5644 - 5644 - 5660	. 5561 . 5589 . 5619	. 0083 . 0055 . 0041	. 5119 . 5119 . 5135	1B 2B 3B	. 527 . 527 . 5270	. 546 . 546 . 5391	. 5660 . 5660 . 5660	. 5767 . 5732 . 5714	. 0107 . 0072 . 0054	. 62
5/8-12 or . 625-12	UN	2A 3A	.0016	. 6234	. 6120		. 5693	. 5639	.0054	. 5212	2B 3B	. 535	. 553	. 5709	. 5780	.0071	. 62

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Table III.10.—Standard series limits of size—Unified screw threads—Continued

					-	Externa] a							Internal	a		
Nominal size and threads per inch	Series designa- tion	Class	A llow-	Major	diamete	r limits	Pitch	diameter	limits	Minor diam-	Class		diam- imits	Pitch	diamete:	r limits	Major diam- eter
per men		01433	ance	Max b	Min	Min c	Max b	Min	Toler- ance	ctcr	Class	Min	Max	Min	Max	Toler- ance	Min
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
5%-16 or . 625-16	UN	2A 3A	in. .0014 .0000	in, . 6236 . 6250	in. . 6142 . 6156	in.	in. . 5830 . 5844	in. . 5782 . 5808	in. .0048 .0036	in. . 5469 . 5483	2B 3B	in. . 557 . 5570	in. . 571 . 5662	in. . 5844 . 5844	in. . 5906 . 5890	in. .0062 .0046	in, . 6250 . 6250
5%-18 or . 625-18	UNF	1A 2A 3A	. 0014 . 0014 . 0000	. 6236 . 6236 . 6250	. 6105 . 6149 . 6163		. 5875 . 5875 . 5889	. 5805 . 5828 . 5854	.0070 .0047 .0035	. 5554 . 5554 . 5568	1B 2B 3B	. 565 . 565 . 5650	. 578 . 578 . 5730	. 5889 . 5889 . 5889	. 5980 . 5949 . 5934	. 0091 . 0060 . 0045	. 6250 . 6250 . 6250
5/8-20 or . 625-20	UN	2A 3A	.0013	. 6237 . 6250	. 6156 . 6169		. 5912 . 5925	. 5869 . 5893	. 0043	. 5624	2B 3B	. 571 . 5710	. 582	. 5925 . 5925	. 5981 . 5967	. 0056	. 6250
5%-24 or . 625-24	UNEF	2A 3A	.0012	. 6238 . 6250	. 6166 . 6178		. 5967	. 5927	. 0040	. 5727	2B 3B	. 580	. 590	. 5979 . 5979	. 6031	.0052	. 6250
5%-28 or . 625-28	UN	2A 3A	.0011	. 6239 . 6250	. 6174 . 6185		. 6007 . 6018	. 5969	.0038	. 5801	2B 3B	. 586	. 595 . 5926	. 6018 . 6018	. 6067 . 6055	. 0049	. 6250 . 6250
5/8-32 or . 625-32	UN	2A 3A	. 0011	. 6239 . 6250	. 6179 . 6190		. 6036 . 6047	. 6000 . 6020	.0036	. 5856	2B 3B	. 591 . 5910	. 599	. 6047 . 6047	. 6093 . 6082	. 0046	. 6250
1½6-12 or . 6875-12	UN	2A 3A	.0016	. 6859 . 6875	. 6745 . 6761		. 6318 . 6334	. 6264 . 6293	.0054	. 5837 . 5853	2B 3B	. 597 . 5970	. 615 . 6085	. 6334	. 6405 . 6387	. 0071	. 6875
11/16-16 or . 6875-16	UN	2A 3A	. 0014	. 6861 . 6875	. 6767 . 6781		. 6455	. 6407 . 6433	.0048	. 6094 . 6108	2B 3B	. 620 . 6200	. 634 . 6284	. 6469	. 6531 . 6515	.0062	. 6875
1½ ₁₆ -20 or .6875-20	UN	2A 3A	.0013	. 6862 . 6875	. 6781 . 6794		. 6537 . 6550	. 6494 . 6518	.0043	. 6249 . 6262	2B 3B	. 633 . 6330	. 645 . 6412	. 6550 . 6550	. 6606	. 0056 . 0042	. 6875 . 6875
11/16-24 or . 6875-24	UNEF	2A 3A	.0012	. 6863 . 6875	. 6791 . 6803		. 6592 . 6604	. 6552 . 6574	. 0040	. 6352 . 6364	2B 3B	. 642 . 6420	. 652 . 6494	. 6604 . 6604	. 6656 . 6643	. 0052	. 6875 . 6875
11/16-28 or . 6875-28	UN	2A 3A	. 0011	. 6864	. 6799 . 6810		. 6632 . 6643	. 6594 . 6615	. 0038	. 6426 . 6437	2B 3B	. 649 . 6490	. 657 . 6551	. 6643 . 6643	. 6692 . 6680	. 0049	. 6875 . 6875
1½6-32 or . 6875-32	UN	2A 3A	.0011	. 6864	. 6804 . 6815		. 6661 . 6672	. 6625 . 6645	.0036	. 6481 . 6492	2B 3B	. 654 . 6540	. 661 . 6594	. 6672 . 6672	. 6718 . 6707	. 0046 . 0035	. 6875 . 6875
34-10 or . 750-10	UNC	1A 2A 3A	. 0018 . 0018 . 0000	. 7482 . 7482 . 7500	. 7288 . 7353 . 7371	. 7288	. 6832 . 6832 . 6850	. 6744 . 6773 . 6806	. 0088 . 0059 . 0044	. 6255 . 6255 . 6273	1B 2B 3B	. 642 . 642 . 6420	. 663 . 663 . 6545	. 6850 . 6850 . 6850	. 6965 . 6927 . 6907	. 0115 . 0077 . 0057	. 7500 . 7500 . 7500
34-12 or . 750-12	UN	2A 3A	.0017	. 7483 . 7500	. 7369 . 7386		. 6942 . 6959	. 6887 . 6918	.0055	. 6461 . 6478	2B 3B	. 660 . 6600	. 678 . 6707	. 6959 . 6959	. 7031 . 7013	. 0072 . 0054	. 7500 . 7500
³ ⁄ ₄ –16 or . 750–16	UNF	1A 2A 3A	. 0015 . 0015 . 0000	. 7485 . 7485 . 7500	. 7343 . 7391 . 7406		. 7079 . 7079 . 7094	. 7004 . 7029 . 7056	. 0075 . 0050 . 0038	. 6718 . 6718 . 6733	1B 2B 3B	. 682 . 682 . 6820	. 696 . 696 . 6908	. 7094 . 7094 . 7094	. 7192 . 7159 . 7143	. 0098 . 0065 . 0049	. 7500 . 7500 . 7500
34-20 or . 750-20	UNEF	2A 3A	.0013	. 7487 . 7500	. 7406 . 7419		. 7162 . 7175	. 7118 . 7142	. 0044	. 6874 . 6887	2B 3B	. 696 . 6960	. 707 . 70 3 7	. 7175 . 7175	. 7232 . 7218	. 0057 . 0043	. 7500 . 7500
3/4-28 or . 750-28	UN	2A 3A	.0012	. 7488 . 7500	. 7423 . 7435		. 7256 . 7268	. 7218 . 7239	.0038	. 7050 . 7062	2B 3B	. 711 . 7110	. 720 . 7176	. 7268 . 7268	. 7318 . 7305	. 0050	. 7500 . 7500
3/4-32 or . 750-32	UN	2A 3A	.0011	. 7489 . 7500	. 7429 . 7440		. 7286 . 7297	. 7250 . 7270	. 0036 . 0027	. 7106 . 7117	2B 3B	. 716 . 7160	. 724 . 7219	. 7297 . 7297	. 7344 . 7333	. 0047 . 0036	. 7500 . 7500
13/16-12 or . 8125-12	UN	2A 3A	.0017	. 8108 . 8125	. 7994 . 8011		. 7567 . 7584	. 7512 . 7543	. 0055	. 7086 . 7103	2B 3B	. 722 . 7220	. 740 . 7329	. 7584 . 7584	. 7656 . 7638	.0072	. 8125 . 8125
¹³ / ₁₆ -16 or . 8125-16	UN	2A 3A	. 0015	. 8110 . 8125	. 8016 . 8031		. 7704 . 7719	. 7655 . 7683	.0049	. 7343 . 7358	2B 3B	. 745 . 7450	. 759 . 7533	. 7719 . 7719	. 7782 . 7766	. 0063	. 8125 . 8125
13/16-20 or . 8125-20	UNEF	2A 3A	.0013	. 8112 . 8125	. 8031 . 8044		. 7787 . 7800	. 7743 . 7767	. 0044	. 7499 . 7512	2B 3B	. 758 . 7580	. 770 . 7662	. 7800 . 7800	. 7857 . 7843	. 0057	. 8125 . 8125
13/16-28 or . 8125-28	UN	2A 3A	. 0012	. 8113 . 8125	. 8048 . 8060		. 7881 . 7893	. 7843 . 7864	.0038	. 7675 . 7687	2B 3B	. 774 . 7740	. 782 . 7801	. 7893 . 7893	. 7943 . 7930	.0050	. 8125 . 8125
13/16-32 or .8125-32	UN	2A 3A	.0011	. 8114 . 8125	. 8054 . 8065		. 7911 . 7922	. 7875 . 7895	.0036	. 7731 . 7742	2B 3B	. 779 . 7790	. 786 . 7844	. 7922 . 7922	. 7969 . 7958	.0047	. 8125 . 8125
76-9 or . 875-9	UNC	1A 2A 3A	.0019 .0019 .0000	. 8731 . 8731 . 8750	. 8523 . 8592 . 8611	. 8523	. 8009 . 8009 . 8028	. 7914 . 7946 . 7981	. 0095 . 0063 . 0047	. 7368 . 7368 . 7387	1B 2B 3B	. 755 . 755 . 7550	. 778 . 778 . 7681	. 8028 . 8028 . 8028	.8151 .8110 .8089	.0123 .0082 .0061	. 8750 . 8750 . 8750
7/6-12 or . 875-12	UN	2A 3A	.0017	. 8733 . 8750	. 8619 . 8636		. 8192 . 8209	. 8137 . 8168	. 0055	. 7711 . 7728	2B 3B	. 785 . 7850	. 803 . 7952	. 8209 . 8209	. 8281 . 8263	. 0072 . 0054	. 8750 . 8750
7/6-14 or . 875-14	UNF	1A 2A 3A	. 0016 . 0016 . 0000	. 8734 . 8734 . 8750	. 8579 . 8631 . 8647		. 8270 . 8270 . 8286	. 8189 . 8216 . 8245	.0081 .0054 .0041	. 7858 . 7858 . 7874	1B 2B 3B	. 798 . 798 . 7980	. 814 . 814 . 8068	. 8286 . 8286 . 8286	. 8392 . 8356 . 8339	. 0106 . 0070 . 0053	. 8750 . 8750 . 8750

						External	a						1	nternal			
Nominal size and threads per inch	Series designa- tion	Class	Allow-	Major	diameter	r limits	Pitch (liameter	limits	Minor	Class	Minor eter li		Pitch (diameter	limits	Major diam- eter
per men		Class	tiffee	Max b	Min	Min ¢	Max b	Min	Toler- ance	eter		Min	Max	Min	Max	Toler- ance	Min
1	2	3	4	5	6	7	8	9	Of.	11	12	13	14	15	16	17	18
7/8-16 or . 875-16	UN	2A 3A	in. . 0015 . 0000	in. . 8735 . 8750	in. . 8641 . 8656	in.	in. . 8329 . 8344	in. .8280 .8308	in. .0049 .0036	in. . 7968 . 7983	2B 3B	in. . 807 . 8070	in. .821 .8158	in. .8344 .8344	in. .8407 .8391	in. .0063 .0047	in. .8750 .8750
7∕8−20 or . 875−20	UNEF	2A 3A	. 0013	. 8737 . 8750	. 8656 . 8669		. 8412 . 8425	. 8368 . 8392	. 0044	. 8124 . 8137	2B 3B	. 821 . 8210	. 832 . 8287	. 8425 . 8425	. 8482 . 8468	.0057	. 8750 . 8750
7,6−28 or . 875−28	UN	2A 3A	.0012	. 8738 . 8750	. 8673 . 8685		. 8506 . 8518	. 8468 . 8489	.0038	. 8300	2B 3B	. 836 . 8360	. 845 . 8426	. 8518 . 8518	. 8568 . 8555	.0050	. 8750 . 8750
7∕8−32 or . 875−32	UN	2A 3A	.0011	. 8739 . 8750	. 8679 . 8690		. 8536 . 8547	. 8500 . 8520	.0036	. 8356	2B 3B	. 841 . 8410	. 849 . 8469	. 8547 . 8547	. 8594 . 8583	.0047	. 8750 . 8750
1516-12 or . 9375-12	UN	2A 3A	.0017	. 9358	. 9244 . 9261		. 8817 . 8834	. 8760 . 8792	. 0057	. 8336	2B 3B	. 847 . 8470	. 865 . 8575	. 8834 . 8834	. 8908	. 0074	. 9375
¹⁵ / ₁₆ –16 or . 9375–16	UN	2A 3A	. 0015	. 9360	. 9266 . 9281		. 8954 . 8969	. 8904 . 8932	.0050	. 8593 . 8608	2B 3B	. 870 . 8700	. 884 . 8783	. 8969 . 8969	. 9034 . 9018	. 0065	. 9375
15/16-20 or . 9375-20	UNEF	2A 3A	.0014	. 9361	. 9280		. 9036	. 8991 . 9016	. 0045	. 8748 . 8762	2B 3B	. 883 . 8830	. 895 . 8912	. 9050	. 9109	.0059	. 9375
15/ ₁₆ -28 or . 9375-28	UN	2A 3A	. 0012	. 9363	. 9298 . 9310		. 9131 . 9143	. 9091	.0040	. 8925	2B 3B	. 899 . 8990	. 907 . 9051	. 9143	. 9195 . 9182	.0052	. 9375
15/16-32 or . 9375-32	UN	2 A 3 A	.0011	. 9364	. 9304		. 9161 . 9172	. 9123	. 0038	. 8981	2B 3B	. 904	. 911	. 9172	. 9221	. 0049	. 9375
1-8 or 1. 000-8	UNC	1A 2A 3A	. 0020 . 0020 . 0000	. 9980 . 9980 1. 0000	. 9755 . 9830 . 9850	. 9755	. 9168 . 9168 . 9188	. 9067 . 9100 . 9137	. 0101 . 0068 . 0051	. 8446 . 8446 . 8466	1B 2B 3B	. 865 . 865 . 8650	. 890 . 890 . 8797	. 9188 . 9188 . 9188	. 9320 . 9276 . 9254	.0132 .0088 .0066	1.0000 1.0000
1-12 or 1. 000-12	UNF	1A 2A 3A	.0018	. 9982 . 9982 1. 0000	. 9810 . 9868 . 9886		. 9441 . 9441 . 9459	. 9353 . 9382 . 9415	. 0088 . 0059 . 0044	. 8960 . 8960 . 8978	1B 2B 3B	. 910 . 910 . 9100	. 928 . 928 . 9198	. 9459 . 9459 . 9459	. 9573 . 9535 . 9516	. 0114 . 0076 . 0057	1.0000
1-16 or 1. 000-16	UN	2A 3A	. 0015	. 9985 1. 0000	. 9891		. 9579	. 9529	.0050	. 9218	2B 3B	. 932	. 946	. 9594	. 9659	. 0065	
1-20 or 1. 000-20	UNEF	2A 3A	. 0014	. 9986 1. 0000	. 9905		. 9661 . 9675	. 9616	. 0045	. 9373	2B 3B	. 946	. 957	. 9675	. 9734	.0059	1.0000
1–28 or 1. 000–28	UN	2A 3A	.0012	. 9988 1. 0000	. 9923		. 9756	. 9716	.0040	. 9550 . 9562	2B 3B	. 961	. 970	. 9768	. 9820	.0052	
1–32 or 1, 000–32	UN	2A 3A	.0011	. 9989	. 9929		. 9786	. 9748	. 0038	. 9606	2B 3B	. 966	. 974	. 9797	. 9846	.0049	1. 0000
1½6-8 or 1.0625-8	UN	2A 3A	. 0020	1.0605 1.0625	1. 0455 1. 0475		.9793	. 9725	. 0068	. 9071	2B 3B	. 927	. 952	. 9813	. 9902	.0089	1.0625
1½6-12 or 1,0625-12	UN	2A 3A	.0017	1. 0608 1. 0625	1. 0494 1. 0511		1. 0067 1. 0084	1.0010 1.0042	. 0057	. 9586	$\frac{2B}{3B}$. 972	. 990	1.0084 1.0084	1. 0158 1. 0139	.0074	1.0625
1½ 6-16 or 1.0625-16	UN	2A 3A	. 0015	1.0610	1. 0516 1. 0531		1. 0204 1. 0219	1. 0154 1. 0182	.0050	. 9843	$\frac{2B}{3B}$. 995	1. 009 1. 0033	1. 0219 1. 0219	1. 0284 1. 0268	.0065	1. 0625
1½6-18 or 1. 0625-18	UNEF	-()	. 0014	1.0611	1. 0524 1. 0538		1. 0250 1. 0264	1.0203 1.0228	.0047	. 9929	$\frac{2B}{3B}$	1.002 1.0020	1,015 1,0105		1. 0326 1. 0310	.0062	1.0625
1½6-20 or 1.0625-20	UN	2A 3A	.0014	1.0611 1.0625	1. 0530 1. 0544		1. 0286 1. 0300	1, 0241 1, 0266	.0045	. 9998	2B 3B	1,008 1,0080	1. 020 1. 0162	1. 0300 1, 0300	1. 0359 1. 0344	.0059	1.0625
1½6-28 or 1. 0625-28	UN	2A 3A	.0012	1.0613	1.0548 1.0560		1.0381	1. 0341 1. 0363	. 0040	1. 0175	2B 3B	1. 024 1. 0240	1. 032 1. 0301	1. 0393 1. 0393	1. 0445 1. 0432	.0052	1.0625
1½6-7 or 1, 125-7	UNC	1A 2A 3A	.0022	1. 1228 1. 1228	1, 0982 1, 1064 1, 1086	1.0982	1,0300	1. 0191 1. 0228 1. 0268	. 0109 . 0072 . 0054	. 9475	1B 2B 3B	. 970 . 970 . 9700	. 998 . 998 . 9875	1. 0322 1. 0322 1. 0322	1. 0463 1. 0416 1. 0393	.0141	1, 1250 1, 1250
1½-8 or 1. 125-8	UN	2A 3A	. 0021	1. 1229	1. 1079 1. 1100	1. 1004	1. 0417	1.0348 1.0386	. 0069	. 9695	2B 3B	. 990	1. 015 1. 0047	1. 0438 1. 0438	1. 0528 1. 0505	.0090	1. 1250
1½6–12 or 1. 125–12	UNF	1A 2A 3A	. 0018	1. 1232 1. 1232	1. 1060 1. 1118 1. 1136		1.0691 1.0691	1.0601 1.0631 1.0664	.0090	1.0210 1.0210	1B 2B 3B	1.035 1.035 1.0350	1. 053 1, 053 1. 0448	1. 0709 1. 0709 1. 0709	1. 0826 1. 0787 1. 0768	. 0117 . 0078 . 0059	1, 1250 1, 1250
1½=16 or 1. 125-16	UN	2A 3A	. 0015	1, 1235	1, 1141 1, 1156		1.0829	1. 0779 1. 0807	.0050	1.0468	2B 3B	1. 057 1. 0570	1. 071 1. 0658	1. 0844 1. 0844	1, 0909 1, 0893	.0065	1. 1250
1½-18 or 1. 125-18	UNEF		.0014	1. 1236	1. 1149 1. 1163		1. 0875	1. 0828 1. 0853	. 0047	1.0554	2B 3B	1.065 1.0650	1. 078 1. 0730	1. 0889 1. 0889	1. 0951 1. 0935	.0062	1. 1250
1½-20 or 1, 125-20	UN	2A 3A	.0014	1.1236	1. 1155 1. 1169		1. 0911	1.0866 1.0891	. 0045	1. 0623	2B 3B	1. 071 1. 0710	1. 082 1. 0787	1. 0925 1. 0925	1. 0984 1. 0969	.0059	1. 1250

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Table III.10.—Standard series limits of size—Unified screw threads—Continued

-	1	V			Startac					orjood oc		reaas-					
				1		Externa	1 4			d			· · · · ·	Internal	a		
Nominal size and threads per inch	Series designa- tion	Class	Allow- ance	Major	r diamete	er limits	Pitch	diameter	r limits	Minor diam-	Class	Minor eter l	diam- imits	Pitch	diamete	r limits	Major diam- eter
				Max b	Min	Min °	Max b	Min	Toler- ance	eter		Min	Max	Min	Max	Toler- ance	Min
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1½-28 or 1.125-28	UN	2A 3A	in. . 0012 . 0000	in. 1. 1238 1. 1250	in. 1. 1173 1. 1185	in.	in. 1. 1006 1. 1018	in. 1. 0966 1. 0988	in. . 0040 . 0030	in. 1.0800 1.0812	2B 3B	in. 1.086 1.0860	in. 1.095 1.0926	in. 1. 1018 1. 1018	in. 1. 1070 1. 1057	in. . 0052 . 0039	in. 1. 1250 1. 1250
13/16-8 or l. 1875-8	UN	2A 3A	.0021	1. 1854 1. 1875	1. 1704 1. 1725		1. 1042 1. 1063	1. 0972 1. 1011	. 0070 . 0052	1. 0320 1. 0341	2B 3B	1. 052 1. 0520	1.077 1.0672	1. 1063 1. 1063	1. 1154 1. 1131	. 0091	1. 1875 1. 1875
1¾6-12 ог . 1875-12	UN	2A 3A	.0017	1. 1858 1. 1875	1. 1744 1. 1761		1. 1317 1. 1334	1. 1259 1. 1291	. 0058	1. 0836 1. 0853	2B 3B	1. 097 1. 0970	1. 115 1. 1073	1. 1334 1. 1334	1. 1409 1. 1390	. 0075	1. 1875 1, 1875
13/16-16 or l. 1875-16	UN	2A 3A	.0015	1. 1860 1. 1875	1. 1766 1. 1781		1. 1454 1. 1469	1. 1403 1. 1431	. 0051	1. 1093 1. 1108	2B 3B	1. 120 1. 1200	1. 134 1. 1283	1. 1469 1. 1469	1. 1535 1. 1519	. 0066	1. 1875 1. 1875
13/16-18 or 1. 1875-18	UNEF	2A 3A	. 0015	1. 1860 1. 1875	1. 1773 1. 1788		1. 1499 1. 1514	1. 1450 1. 1478	. 0049	1. 1178 1. 1193	2B 3B	1. 127 1. 1270	1. 140 1. 1355	1. 1514 1. 1514	1. 1577 1. 1561	. 0063	1. 1875 1. 1875
1¾6-20 or l. 1875-20	UN	2A 3A	.0014	1. 1861 1. 1875	1. 1780 1. 1794		1. 1536 1. 1550	1. 1489 1. 1515	. 0047	1, 1248 1, 1262	2B 3B	1. 133 1. 1330	1. 145 1. 1412	1. 1550 1. 1550	1. 161 <u>1</u> 1. 1595	. 0061	1. 1875 1. 1875
1¾6-28 or l. 1875-28	UN	2A 3A	. 0012	1. 1863 1. 1875	1. 1798 1. 1810		1. 1631 1. 1643	1. 1590 1. 1612	. 0041	1. 1425 1. 1437	2B 3B	1. 149 1. 1490	1. 157 1. 1551	1, 1643 1, 1643	1. 1696 1. 1683	. 0053	1. 1875 1. 1875
1½-7 or 1. 250-7	UNC	1A 2A 3A	. 0022 . 0022 . 0000	1. 2478 1. 2478 1. 2500	1. 2232 1. 2314 1. 2336	1. 2232	1. 1550 1. 1550 1. 1572	1. 1439 1. 1476 1. 1517	. 0111 . 0074 . 0055	1, 0725 1, 0725 1, 0747	1B 2B 3B	1. 095 1. 095 1. 0950	1. 123 1. 123 1. 1125	1. 1572 1. 1572 1. 1572	1. 1716 1. 1668 1. 1644	. 0144 . 0096 . 0072	1. 2500 1. 2500 1. 2500
1½-8 or 1. 250-8	UN	2A 3A	. 0021	1. 2479 1. 2500	1. 2329 1. 2350	1. 2254	1. 1667 1. 1688	1. 1597 1. 1635	. 0070	1. 0945 1. 0966	2B 3B	1. 115 1. 1150	1. 140 1. 1297	1. 1688 1. 1688	1. 1780 1. 1757	. 0092	1. 2500 1. 2500
1½-12 or 1. 250-12	UNF	1A 2A 3A	. 0018 . 0018 . 0000	1. 2482 1. 2482 1. 2500	1. 2310 1. 2368 1. 2386		1. 1941 1. 1941 1. 1959	1. 1849 1. 1879 1. 1913	. 0092 . 0062 . 0046	1. 1460 1. 1460 1. 1478	1B 2B 3B	1. 160 1. 160 1. 1600	1. 178 1. 178 1. 1698	1. 1959 1. 1959 1. 1959	1. 2079 1. 2039 1. 2019	. 0120 . 0080 . 0060	1. 2500 1. 2500 1. 2500
1½-16 or 1. 250-16	UN	2A 3A	. 0015	1. 2485 1. 2500	1. 2391 1. 2406		1. 2079 1. 2094	1. 2028 1. 2056	.0051	1. 1718 1. 1733	2B 3B	1. 182 1. 1820	1. 196 1. 1908	1. 2094 1. 2094	1, 2160 1, 2144	. 0066	1. 2500 1. 2500
1½-18 or 1. 250-18	UNEF	2A 3A	. 0015	1. 2485 1. 2500	1. 2398 1. 2413		1, 2124 1, 2139	1. 2075 1. 2103	. 0049	1. 1803 1. 1818	2B 3B	1. 190 1. 1900	1. 203 1. 1980	1. 2139 1. 2139	1. 2202 1. 2186	. 0063	1. 2500 1. 2500
1½-20 or 1. 250-20	UN	2A 3A	.0014	1. 2486 1. 2500	1. 2405 1. 2419		1. 2161 1. 2175	1. 2114 1. 2140	. 0047	1. 1873 1. 1887	2B 3B	1. 196 1. 1960	1. 207 1. 2037	1. 2175 1. 2175	1. 2236 1. 2220	. 0061	1. 2500 1. 2500
1½-28 or 1. 250-28	UN	2A 3A	. 0012	1, 2488 1, 2500	1. 2423 1. 2435		1. 2256 1. 2268	1. 2215 1. 2237	.0041	1, 2050 1, 2062	2B 3B	1. 211 1. 2110	1. 220 1. 2176	1. 2268 1. 2268	1. 2321 1. 2308	. 0053	1, 2500 1, 2500
15/16-8 or 1. 3125-8	UN	2A 3A	. 0021	1. 3104 1. 3125	1. 2954 1. 2975		1. 2292 1. 2313	1. 2221 1. 2260	.0071	1. 1570 1. 1591	2B 3B	1. 177 1. 1770	1. 202 1. 1922	1. 2313 1. 2313	1. 2405 1. 2382	. 0092	1. 3125 1. 3125
15/16-12 or 3125-12	UN	2A 3A	. 0017	1. 3108 1. 3125	1. 2994 1. 3011		1. 2567 1. 2584	1. 2509 1. 2541	. 0058	1. 2086 1. 2103	2B 3B	1. 222 1. 2220	1. 240 1. 2323	1. 2584 1. 2584	1, 2659 1, 2640	. 0075	1. 3125 1. 3125
15/16-16 or 3125-16	UN	2A 3A	. 0015	1. 3110 1. 3125	1. 3016 1. 3031		1. 2704 1. 2719	1. 2653 1. 2681	. 0051	1. 2343 1. 2358	2B 3B	1. 245 1. 2450	1. 259 1. 2533	1. 2719 1. 2719	1. 2785 1. 2769	. 0066	1. 3125 1. 3125
15/16-18 or . 3125-18	UNEF	2A 3A	. 0015	1. 3110 1. 3125	1. 3023 1. 3038		1. 2749 1. 2764	1. 2700 1. 2728	. 0049	1. 2428 1. 2443	2B 3B	1. 252 1. 2520	1. 265 1. 2605	1. 2764 1. 2764	1. 2827 1. 2811	. 0063	1. 3125 1. 3125
15/16-20 or . 3125-20	UN	2A 3A	. 9014	1. 3111 1. 3125	1. 3030 1. 3044		1. 2786 1. 2800	1. 2739 1. 2765	. 0047	1. 2498 1. 2512	2B 3B	1. 258 1. 2580	1. 270 1. 2662	1. 2800 1. 2800	1. 2861 1. 2845	. 0061	1. 3125 1. 3125
15/16-28 or 1. 3125-28	UN	2A 3A	. 0012	1. 3113 1. 3125	1. 3048 1. 3060		1. 2881 1. 2893	1. 2840 1. 2862	.0041	1. 2675 1. 2687	2B 3B	1. 274 1. 2740	1. 282 1. 2801	1. 2893 1. 2893	1. 2946 1. 2933	. 0053	1. 3125 1. 3125
13/6-6 or 1. 375-6	UNC	1A 2A 3A	. 0024 . 0024 . 0000	1. 3726 1. 3726 1. 3750	1. 3453 1. 3544 1. 3568	1. 3453	1. 2643 1. 2643 1. 2667	1. 2523 1. 2563 1. 2607	. 0120 . 0080 . 0060	1, 1681 1, 1681 1, 1705	1B 2B 3B	1. 195 1. 195 1. 1950	1. 225 1. 225 1. 2146	1. 2667 1. 2667 1. 2667	1. 2822 1. 2771 1. 2745	. 0155 . 0104 . 0078	1. 3750 1. 3750 1. 3750
13%-8 or '1. 375-8	UN	2A 3A	. 0022	1. 3728 1. 3750	1. 3578 1. 3600	1. 3503	1. 2916 1. 2938	1. 2844 1. 2884	. 0072	1. 2194 1. 2216	2B 3B	1. 240 1. 2400	1. 265 1. 2547	1. 2938 1. 2938	1. 3031 1. 3008	. 0093	1. 3750 1. 3750
13/6-12 or 1. 375-12	UNF	1A 2A 3A	. 0019 . 0019 . 0000	1. 3731 1. 3731 1. 3750	1. 3559 1. 3617 1. 3636		1. 3190 1. 3190 1. 3209	1. 3096 1. 3127 1. 3162	. 0094 . 0063 . 0047	1, 2709 1, 2709 1, 2728	1B 2B 3B	1. 285 1. 285 1. 2850	1. 303 1. 303 1. 2948	1. 3209 1. 3209 1. 3209	1. 3332 1. 3291 1. 3270	. 0123 . 0082 . 0061	1. 3750 1. 3750 1. 3750
13%-16 or 1. 375-16	UN	2A 3A	.0015	1. 3735 1. 3750	1. 3641 1. 3656		1. 3329 1. 3344	1. 3278 1. 3306	. 0051	1. 2968 1. 2983	2B 3B	1. 307 1. 3070	1. 321 1. 3158	1. 3344 1. 3344	1. 3410 1. 3394	. 0066	1. 3750 1. 3750
13/s-18 or 1. 375-18	UNEF	2A 3A	0015	1 3735 1. 3750	1. 3648 1. 3663		1. 3374 1. 3389	1. 3325 1. 3353	. 0049	1. 3053 1. 3068	2B 3B	1. 315 1. 3150	1. 328 1. 3230	1. 3389 1. 3389	1. 3452 1. 3436	.0063	1. 3750 1. 3750
13/s-20 or 1. 375-20	UN	2A 3A	.0014	1. 3736 1. 3750	1 3655 1. 3669		1. 3411 1. 3425	1. 3364 1. 3390	. 0047	1. 3123 1. 3137	2B 3B	1. 321 1. 3210	1. 332 1. 3287	1. 3425 1. 3425	1. 3486 1. 3470	. 0061	1. 3750 1. 3750

	1					Externa	l a							Internal	a		
Nominal size and threads per inch	Series designa- tion	Class	Allow-	Major	diamete	r limits	Pitch	diameter	limits	Minor diam-	Class		diam- imits	Pitch o	diameter	limits	Major diam- eter
per men		0.1400	ance	Max b	Min	Mın c	Max b	Min	Toler- ance	eter		Min	Max	Min	Max	Toler- ance	Min
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
13%-28 or 1. 375-28	UN	2A 3A	in. .0012 .0000	in. 1.3738 1.3750	in. 1.3673 1.3685	in.	in. 1. 3506 1. 3518	in. 1.3465 1.3487	in. .0041 .0031	in. 1.3300 1.3312	2B 3B	in. 1.336 1.3360	in. 1. 345 1. 3426	in. 1.3518 1.3518	in. 1.3571 1.3558	in. .0053 .0040	in. 1. 3750 1. 3750
17/16-6 or 1, 4375-6	UN	2A 3A	.0024	1. 4351 1. 4375	1. 4169 1. 4193		1. 3268 1. 3292	1. 3188 1. 3232	. 0080 . 0060	1. 2306 1. 2330	2B 3B	1. 257 1. 2570	1. 288 1. 2771	1.3292 1.3292	1.3396 1.3370	. 0104	1. 4375 1. 4375
17/16-8 1. 4375-8	UN	2A 3A	. 0022	1. 4353 1. 4375	1, 4203 1, 4225		1, 3541 1, 3563	1.3469 1.3509	.0072 .0054	1. 2819 1. 2841	2B 3B	1. 302 1. 3020	1, 327 1, 3172	1. 3563 1. 3563	1. 3657 1. 3634	. 0094	1. 4375 1. 4375
17/16-12 or 1. 4375-12	UN	2A 3A	. 0018	1. 4357 1. 4375	1, 4243 1, 4261		1. 3816 1. 3834	1. 3757 1. 3790	.0059	1. 3335 1. 3353	2B 3B	1. 347 1. 3470	1. 365 1. 3573	1, 3834 1, 3834	1, 3910 1, 3891	.0076	1. 4375 1. 4375
1½ 6–16 or 1. 4375–16	UN	2A 3A	.0016	1. 4359 1. 4375	1. 4265 1. 4281		1.3953 1.3969	1. 3901 1. 3930	. 0052	1. 3592 1. 3608	2B 3B	1. 370 1. 3700	1. 384 1. 3783	1. 3969· 1. 3969	1, 4037 1, 4020	.0068	1. 4375 1. 4375
1½6-18 or 1. 4375-18	UNEF	2A 3A	. 0015	1. 4360 1. 4375	1, 4273 1, 4288		1. 3999 1. 4014	1.3949 1.3977	.0050	1.3678 1.3693	2B 3B	1.377 1.3770	1. 390 1. 3855	1. 4014 1. 4014	1. 4079 1. 4062	.0065	1. 4375 1. 4375
1½6-20 or 1, 4375-20	UN	2A 3A	.0014	1. 4361 1. 4375	1. 4280 1. 4294		1. 4036 1. 4050	1.3988 1.4014	.0048	1. 3748 1. 3762	2B 3B	1.383 1.3830	1. 395 1. 3912	1. 4050 1. 4050	1.4112 1.4096	.0062	1. 4375 1. 4375
17/16-28 or 1. 4375-28	UN	2A 3A	. 0013	1. 4362 1. 4375	1. 4297 1. 4310		1. 4130 1. 4143	1. 4088 1. 4112	.0042	1. 3924 1. 3937	2B 3B	1. 399 1. 3990	1.407 1.4051	1. 4143 1. 4143	1.4198 1.4184	. 0055	1. 4375 1. 4375
1½-6 or 1. 500-6	UNC	1A 2A 3A	. 0024 . 0024 . 0000	1. 4976 1. 4976 1. 5000	1. 4703 1. 4794 1. 4818	1, 4703	1. 3893 1. 3893 1. 3917	1. 3772 1. 3812 1. 3856	. 0121 . 0081 . 0061	1, 2931 1, 2931 1, 2955	1B 2B 3B	1. 320 1. 320 1. 3200	1, 350 1, 350 1, 3396	1. 3917 1. 3917 1. 3917	1, 4075 1, 4022 1, 3996	.0158 .0105 .0079	1. 5000 1. 5000 1. 5000
1½-8 or 1. 500-8	UN	2A 3A	. 0022	1. 4978 1. 5000	1. 4828 1. 4850	1. 4753	1. 4166 1. 4188	1. 4093 1. 4133	. 0073	1. 3444 1. 3466	2B 3B	1. 365 1. 3650	1. 390 1. 3797	1. 4188 1. 4188	1. 4283 1. 4259	.0095	1.5000 1.5000
1½-12 or 1. 500-12	UNF	1A 2A 3A	. 0019	1.4981 1.4981 1.5000	1, 4809 1, 4867 1, 4886		1. 4440 1. 4440 1. 4459	1. 4344 1. 4376 1. 4411	. 0096 . 0064 . 0048	1. 3959 1. 3959 1. 3978	1B 2B 3B	1. 410 1. 410 1. 4100	1, 428 1, 428 1, 4198	1, 4459 1, 4459 1, 4459	1, 4584 1, 4542 1, 4522	.0125 .0083 .0063	1. 5000 1. 5000 1. 5000
1½-16 or 1. 500-16	UN	2A 3A	.0016	1. 4984 1. 5000	1. 4890 1. 4906		1. 4578 1. 4594	1. 4526 1. 4555	. 0052	1. 4217 1. 4233	2B 3B	1. 432 1. 4320	1. 446 1. 4408	1. 4594 1. 4594	1. 4662 1. 4645	.0068	1. 5000 1. 5000
1½-18 or 1, 500-18	UNEF	2A 3A	.0015	1.4985 1.5000	1. 4898 1. 4913		1. 4624 1. 4639	1, 4574 1, 4602	. 0050	1. 4303 1. 4318	2B 3B	1. 440 1. 4400	1. 452 1. 4480	1. 4639 1. 4639	1.4704 1.4687	. 0065	1. 5000 1. 5000
1½-20 or 1. 500-20	UN	2A 3A	.0014	1. 4986 1. 5600	1. 4905 1. 4919		1. 4661 1. 4675	1. 4613 1. 4639	. 0048	1. 4373 1. 4387	2B 3B	1.446 1.4460	1, 457 1, 4537	1. 4675 1. 4675	1, 4737 1, 4721	.0062	1. 5000 1. 5000
1½-28 or 1. 500-28	UN	2A 3A	. 0013	1. 4987 1. 5000	1.4922 1.4935		1. 4755 1. 4768	1. 4713 1. 4737	.0042	1, 4549 1, 4562	2B 3B	1. 461 1. 4610	1. 470 1. 4676	1,4768 1,4768	1. 4823 1. 4809	. 0055	1. 5000 1. 5000
1% 6-6 or 1. 5625-6	UN	2A 3A	. 0024	1. 5601 1. 5625	1. 5419 1. 5443		1. 4518 1. 4542	1. 4436 1. 4481	.0082	1. 3556 1. 3580	2B 3B	1. 382 1. 3820	1. 413 1. 4021	1. 4542 1. 4542	1. 4648 1. 4622	.0106	1. 5625 1. 5625
19/16-8 or 1, 5625-8	UN	2A 3A	.0022	1. 5603 1. 5625	1. 5453 1. 5475		1. 4791 1. 4813	1. 4717 1. 4758	.0074	1. 4069 1. 4091	2B 3B	1. 427 1. 4270	1. 452 1. 4422	1. 4813 1. 4813	1. 4909 1. 4885	.0096	1, 5625 1, 5625
1% 6-12 or 1. 5625-12	UN	2A 3A	. 0018	1. 5607 1. 5625	1. 5493 1. 5511		1. 5066 1. 5084	1. 5007 1. 5040	.0059	1. 4585 1. 4603	2B 3B	1, 472 1, 4720	1.490 1.4823	1, 5084 1, 5084	1. 5160 1. 5141	. 0076	1. 5625 1. 5625
1%6-16 or 1. 5625-16	UN	2A 3A	.0016	1. 5609 1. 5625	1, 5515 1, 5531		1. 5203 1. 5219	1. 5151 1. 5180	.0052	1. 4842 1. 4858	2B 3B	1. 495 1. 4950	1. 509 1. 5033	1. 5219 1. 5219	1. 5287 1. 5270	.0068	1, 5625 1, 5625
19/16-18 or 1. 5625-18	UNEF	2A 3A	.0015	1. 5610 1. 5625	1. 5523 1. 5538		1. 5249 1. 5264	1. 5199 1. 5227	.0050	1. 4928 1. 4943	2B 3B	1. 502 1. 5020	1. 515 1. 5105	1. 5264 1. 5264	1. 5329 1. 5312	.0065	1. 5625 1. 5625
19/16-20 or 1, 5625-20	UN	2A 3A	.0014	1. 5611 1. 5625	1. 5530 1. 5544		1, 5286 1, 5300	1, 5238 1, 5264	.0048	1. 4998 1. 5012	2B 3B	1. 508 1. 5080	1. 520 1. 5162	1. 5300 1. 5300	1. 5362 1. 5346	.0048	1. 5625 1. 5625
15/8-6 or 1, 625-6	UN	2A 3A	.0025	1. 6225 1. 6250	1. 6043 1. 6068		1. 5142 1. 5167	1. 5060 1. 5105	.0082	1. 4180 1. 4205	2B 3B	1. 445 1. 4450	1. 475 1. 4646	1, 5167 1, 5167	1, 5274 1, 5247	.0107	1. 6250 1. 6250
15/8-8 or 1. 625-8	UN	2A 3A	.0022	1. 6228 1. 6250	1. 6078 1. 6100	1.6003	1. 5416 1. 5438	1. 5342 1. 5382	.0074	1. 4694 1. 4716	2B 3B	1.490 1.490 1.4900	1. 515 1. 5047	1. 5438 1. 5438	1. 5535 1. 5510	.0097	1. 6250 1. 6250
15%-12 or 1. 625-12	UN	2A 3A	.0018	1. 6232	1. 6118 1. 6136		1. 5691	1. 5632	. 0059	1. 5210	2B 3B	1. 535	1. 553	1. 5709	1. 5785	.0076	1. 6250
15%-16 or	UN	2A	. 0016	1.6250	1. 6140		1. 5828	1. 5776	. 0044	1. 5228	2B	1. 557	1. 571	1. 5709	1. 5912	.0057	1. 6250
1. 625–16 15%–18 or	UNEF	3A 2A	.0000	1. 6235	1.6148		1. 5844	1. 5824	.0039	1. 5553	2B	1. 565	1. 5658	1. 5889	1. 5954	.0051	1.6250
1. 625-18 15%-20 or	UN	3A 2A	.0000	1. 6236	1. 6163		1. 5889	1.5852	.0037	1. 5568	3B 2B	1. 5650	1. 5730	1.5889	1.5937	. 0048	1. 6250
1. 625-20		3A	. 0000	1. 6250	1. 6169		1. 5925	1. 5889	.0036	1. 5637	3B	1. 5710	1.5787	1. 5925	1.5971	. 0046	1.6250

Table III.10.—Standard series limits of size—Unified screw threads—Continued

		1 A	RLE II	1.10.—	Siana	ira seri	es umi	is of si	2e01	ujiea se	new u	rreaus-	-Conti	muea			
						Externa] 4							Internal	a		
Nominal size and threads per inch	Series designa- tion	Class	Allow-	Major	diamete	er limits	Pitch	diameter	limits	Minor diam-	Class	eter	diam- limits	Pitch	diameter	limits	Major diam- eter
per anon				Max b	Min	Min e	Max b	Min	Toler- ance	eter		Min	Max	Min	Max	Toler- ance	Min
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1 ¹ 1/ ₁₆ -6 or 1. 6875-6	UN	2A 3A	in. .0025 .0000	in. 1. 6850 1. 6875	in. 1.6668 1.6693	in.	in. 1. 5767 1. 5792	in. 1. 5684 1. 5730	in. .0083 .0062	in. 1. 4805 1. 4830	2B 3B	in. 1.507 1.5070	in. 1. 538 1. 5271	in. 1. 5792 1. 5792	in. 1.5900 1.5873	in. .0108 .0081	in. 1. 6875 1. 6875
11½ 6-8 or 1. 6875-8	UN	2A 3A	.0022	1. 6853 1. 6875	1. 6703 1. 6725		1.6041 1.6063	1. 5966 1. 6007	.0075	1. 5319 1. 5341	2B 3B	1. 552 1. 5520	1. 577 1. 5672	1. 6063 1. 6063	1.6160 1.6136	.0097	1. 6875 1. 6875
1 ¹ ½ ₁₆ -12 or 1. 6875-12	UN	2A 3A	.0018	1. 6857 1. 6875	1. 6743 1. 6761		1. 6316 1. 6334	1. 6256 1. 6289	.0060	1. 5835 1. 5853	2B 3B	1. 597 1. 5970	1. 615 1. 6073	1. 6334 1. 6334	1. 6412 1. 6392	.0078	1. 6875 1. 6875
111/16-16 or 1. 6875-16	UN	2A 3A	.0016	1. 6859 1. 6875	1. 6765 1. 6781		1. 6453 1. 6469	1.6400 1.6429	. 0053	1.6092 1.6108	2B 3B	1. 620 1. 6200	1. 634 1. 6283	1. 6469 1. 6469	1. 6538 1. 6521	. 0069	1. 6875 1. 6875
1 ¹ ½ ₁₆ -18 or 1. 6875-18	UNEF	2A 3A	. 0015	1. 6860 1. 6875	1.6773 1.6788		1. 6499 1. 6514	1. 6448 1. 6476	.0051	1. 6178 1. 6193	2B 3B	1. 627 1. 6270	1. 640 1. 6355	1. 6514 1. 6514	1. 6580 1. 6563	. 0066	1. 6875 1. 6875
1 ¹ ½ ₁₆ -20 or 1. 6875-20	UN	2A 3A	. 0015	1. 6860 1. 6875	1.6779 1.6794		1. 6535 1. 6550	1. 6487 1. 6514	.0048	1. 6247 1. 6262	2B 3B	1. 633 1. 6330	1. 645 1. 6412	1. 6550 1. 6550	1. 6613 1. 6597	.0063	1. 6875 1. 6875
134-5 or 1.750-5	UNC	1A 2A 3A	.0027 .0027 .0000	1. 7473 1. 7473 1. 7500	1. 7165 1. 7268 1. 7295	1. 7165	1. 6174 1. 6174 1. 6201	1. 6040 1. 6085 1. 6134	. 0134 . 0089 . 0067	1. 5019 1. 5019 1. 5046	1B 2B 3B	1. 534 1. 534 1. 5340	1, 568 1, 568 1, 5575	1. 6201 1. 6201 1. 6201	1. 6375 1. 6317 1. 6288	.0174 .0116 .0087	1. 7500 1. 7500 1. 7500
134-6 or 1.750-6	UN	2A 3A	. 0025	1. 7475 1. 7500	1. 7293 1. 7318		1. 6392 1. 6417	1.6309 1.6354	.0083	1. 5430 1. 5455	2B 3B	1. 570 1. 5700	1. 600 1. 5896	1. 6417 1. 6417	1. 6525 1. 6498	.0108	1. 7500 1. 7500
134-8 or 1.750-8	UN	2A 3A	. 0023	1. 7477 1. 7500	1. 7327 1. 7350	1.7252	1. 6665 1. 6688	1. 6590 1. 6631	. 0075 . 0057	1. 5943 1. 5966	2B 3B	1. 615 1. 6150	1. 640 1. 6297	1. 6688 1. 6688	1. 6786 1. 6762	.0098	1. 7500 1. 7500
134-12 or 1.750-12	UN	2A 3A	. 0018	1. 7482 1. 7500	1. 7368 1. 7386		1. 6941 1. 6959	1. 6881 1. 6914	. 0060	1. 6460 1. 6478	2B 3B	1.660 1.6600	1.678 1.6698	1, 6959 1, 6959	1. 7037 1. 7017	.0078	1.7500 1.7500
134-16 or 1. 750-16	UN	2A 3A	.0016	1. 7484 1. 7500	1. 7390 1. 7406		1. 7078 1. 7094	1. 7025 1. 7054	. 0053 . 0040	1. 6717 1. 6733	2B 3B	1. 682 1. 6820	1.696 1.6908	1.7094 1.7094	1.7163 1.7146	. 0069	1.7500 1.7500
134-20 or 1.750-20	UN	2A 3A	.0015	1. 7485 1. 7500	1.7404 1.7419		1. 7160 1. 7175	1. 7112 1. 7139	. 0048	1. 6872 1. 6887	2B 3B	1.696 1.6960	1.707 1.7037	1. 7175 1. 7175	1. 7238 1. 7222	. 0063	1.7500 1.7500
1 ¹ 3/ ₁₆ -6 or 1. 8125-6	UN	2A 3A	.0025	1.8100 1.8125	1. 7918 1. 7943		1. 7017 1. 7042	1. 6933 1. 6979	. 0084	1. 6055 1. 6080	2B 3B	1. 632 1. 6320	1. 663 1. 6521	1. 7042 1. 7042	1.7151 1.7124	.0109	1. 8125 1. 8125
1 ¹³ ⁄ ₁₆ -8 or 1.8125-8	UN	2A 3A	.0023	1.8102 1.8125	1. 7952 1. 7975		1. 7290 1. 7313	1. 7214 1. 7256	.0076	1.6568 1.6591	2B 3B	1.677 1.6770	1. 702 1. 6922	1. 7313 1. 7313	1. 7412 1. 7387	0099 .0074	1.8125 1.8125
1 ¹³ ⁄ ₁₆ -12 or 1. 8125-12	UN	2A 3A	.0018	1.8107 1.8125	1.7993 1.8011		1.7566 1.7584	1. 7506 1. 7539	.0060	1.7085 1.7103	2B 3B	1.722 1.7220	1. 740 1. 7323	1.7584 1.7584	1. 7662 1. 7642	.0078	1.8125 1.8125
1 ¹³ ⁄ ₁₆ -16 or 1, 8125-16	UN	2A 3A	.0016	1.8109 1.8125	1.8015 1.8031		1. 7703 1. 7719	1. 7650 1. 7679	.0053	1. 7342 1. 7358	2B 3B	1. 745 1. 7450	1.759 1.7533	1. 7719 1. 7719	1. 7788 1. 7771	. 0069	1. 8125 1. 8125
1 ¹ 3/ ₆ -20 or 1. 8125-20	UN	2A 3A	.0015	1.8110 1.8125	1. 8029 1. 8044		1. 7785 1. 7800	1. 7737 1. 7764	.0048	1. 7497 1. 7512	2B 3B	1.758 1.7580	1. 770 1. 7662	1. 7800 1. 7800	1.7863 1.7847	. 0063	1.8125 1.8125
17%-6 or 1.875-6	UN	2A 3A	. 0025	1.8725 1.8750	1. 8543 1. 8568		1. 7642 1. 7667	1. 7558 1. 7604	. 0084	1,6680 1,6705	2B 3B	1. 695 1. 6950	1. 725 1. 7146	1. 7667 1. 7667	1.7777 1.7749	.0110	1.8750 1.8750
17/8-8 or 1, 875-8	UN	2A 3A	.0023	1.8727 1.8750	1. 8577 1. 8600	1.8502	1.7915 1.7938	1. 7838 1. 7881	.0077	1.7193 1.7216	2B 3B	1. 740 1. 7400	1. 765 1. 7547	1, 7938 1, 7938	1. 8038 1. 8013	. 0100	1.8750 1.8750
17/6-12 or 1. 875-12	UN	2A 3A	. 0018	1. 8732 1. 8750	1. 8618 1. 8636		1. 8191 1. 8209	1. 8131 1. 8164	.0060	1. 7710 1. 7728	2B 3B	1.785 1.7850	1.803 1.7948	1.8209 1.8209	1. 8287 1. 8267	.0078	1. 8750 1. 8750
17%-16 or 1. 875-16	UN	2A 3A	.0016	1.8734 1.8750	1.8640 1.8656		1,8328 1,8344	1, 8275 1, 8304	. 0053	1. 7967 1. 7983	2B 3B	1. 807 1. 8070	1.821 1.8158	1, 8344 1, 8344	1.8413 1.8396	. 0069	1. 8750 1. 8750
17/6-20 or 1. 875-20	UN	2A 3A	.0015	1. 8735 1. 8750	1. 8654 1. 8669		1.8410 1.8425	1.8362 1.8389	.0048	1.8122 1.8137	2B 3B	1. 821 1. 8210	1. 832 1. 8287	1.8425 1.8425	1.8488 1.8472	.0063	1. 8750 1. 8750
1 ¹⁵ / ₁₆ -6 or 1. 9375-6	UN	2A 3A	. 0026	1. 9349 1. 9375	1. 9167 1. 9193		1. 8266 1. 8292	1. 8181 1. 8228	. 0085	1. 7304 1. 7330	2B 3B	1. 757 1. 7570	1. 788 1. 7771	1.8292 1.8292	1. 8403 1. 8375	.0111	1. 9375 1. 9375
115/16-8 or 1. 9375-8	UN	2A 3A	. 0023	1. 9352 1. 9375	1. 9202 1. 9225		1. 8540 1. 8563	1. 8463 1. 8505	. 0077	1. 7818 1. 7841	2B 3B	1. 802 1. 8020	1. 827 1. 8172	1.8563 1.8563	1. 8663 1. 8638	. 0100	1. 9375 1. 9375
1 ¹⁵ / ₁₆ -12 or 1. 9375-12	UN	2A 3A	.0018	1. 9357 1. 9375	1. 9243 1. 9261		1. 8816 1. 8834	1. 8755 1. 8789	. 0061	1.8335 1.8353	2B 3B	1. 847 1. 8470	1. 865 1. 8573	1.8834 1.8834	1, 8913 1, 8893	. 0079	1. 9375 1. 9375
1 ¹⁵ / ₁₆ -16 or 1. 9375-16	UN	2A 3A	. 0016	1. 9359 1. 9375	1. 9265 1. 9281		1. 8953 1. 8969	1. 8899 1. 8929	. 0054	1.8592 1.8608	2B 3B	1. 870 1. 8700	1. 884 1. 8783	1.8969 1.8969	1. 9039 1. 9021	. 0070	1. 9375 1. 9375
1 ¹ 5/ ₁₆ -20 or 1. 9375-20	UN	2A 3A	. 0015	1. 9360 1. 9375	1. 9279 1. 9294		1. 9035 1. 9050	1. 8986 1. 9013	.0049	1. 8747 1. 8762	2B 3B	1. 883 1. 8830	1. 895 1. 8912	1. 9050 1. 9050	1. 9114 1. 9098	. 0064	1. 9375 1. 9375
											-						

Table III.10.—Standard series limits of size—Unified screw threads—Continued

						Externa	1 a							Internal	а		
Nominal size and threads per inch	Series designa- tion	Class	Allow-	Major	diamete	er limits	Pitch	diameter	limits	Minor diam-	Class		djam- limits	Pitch	diamete	r limits	Major diam- eter
permen		01400	***************************************	Max b	Min	Min c	Max b	Min	Toler- ance	eter		Min	Max	Min	Max	Toler- ance	Min
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
2-4½ or 2.000-4.5	UNC	1A 2A 3A	in. . 0029 . 0029 . 0000	in. 1.9971 1.9971 2.0000	in. 1.9641 1.9751 1.9780	in.	in. 1. 8528 1. 8528 1. 8557	in. 1. 8385 1. 8433 1. 8486	in. . 0143 . 0095 . 0071	in. 1. 7245 1. 7245 1. 7274	1B 2B 3B	in. 1. 759 1. 759 1. 7590	in. 1. 795 1. 795 1. 7861	in. 1. 8557 1. 8557 1. 8557	in. 1. 8743 1. 8681 1. 8650	in. . 0186 . 0124 . 0093	in. 2. 0000 2. 0000 2. 0000
2-6 or 2. 000-6	UN	2A 3A	. 0026	1. 9974 2. 0000	1. 9792 1. 9818		1. 8891 1. 8917	1. 8805 1. 8853	. 0086	1. 7929 1. 7955	2B 3B	1.820 1.8200	1. 850 1. 8396	1. 8917 1. 8917	1. 9028 1. 9000	.0111	2. 0000 2. 0000
2-8 or 2, 000-8	UN	2A 3A	. 0023 . 0000	1. 9977 2. 0000	1. 9827 1. 9850	1. 9752	1. 9165 1. 9188	1. 9087 1. 9130	. 0078	1. 8443 1. 8466	2B 3B	1. 865 1. 8650	1. 890 1. 8797	1. 9188 1. 9188	1. 9289 1. 9264	.0101	2. 0000 2. 0000
2-12 or 2. 000-12	UN	2A 3A	. 0018	1. 9982 2. 0000	1. 9868 1. 9886		1. 9441 1. 9459	1. 9380 1. 9414	. 0061	1. 8960 1. 8978	2B 3B	1. 910 1. 9100	1. 928 1. 9198	1. 9459 1. 9459	1. 9538 1. 9518	. 0079	2. 0000 2. 0000
2-16 or 2, 000-16	UN	2A 3A	.0016	1. 9984 2. 0000	1. 9890 1. 9906		1. 9578 1. 9594	1. 9524 1. 9554	. 0054	1. 9217 1. 9233	2B 3B	1. 932 1. 9320	1. 946 1. 9408	1. 9594 1. 9594	1. 9664 1. 9646	.0070	2. 0000 2. 0000
2-20 or 2,000-20	UN	2A 3A	. 0015	1. 9985 2. 0000	1, 9904 1, 9919		1. 9660 1. 9675	1. 9611 1. 9638	. 0049	1. 9372 1. 9387	2B 3B	1. 946 1. 9460	1. 957 1. 9537	1. 9675 1. 9675	1. 9739 1. 9723	.0064	2. 0000 2. 0000
216-6 or 2, 125-6	UN	2A 3A	. 0026	2. 1224 2. 1250	2. 1042 2. 1068		2. 0141 2. 0167	2. 0054 2. 0102	. 0087	1. 9179 1. 9205	2B 3B	1. 945 1. 9450	1. 975 1. 9646	2. 0167 2. 0167	2. 0280 2. 0251	. 0113	2. 1250 2. 1250
2½-8 or 2.125-8	UN	2A 3A	. 0024	2. 1226 2. 1250	2. 1076 2. 1100	2. 1001	2. 0414 2. 0438	2. 0335 2. 0379	. 0079	1. 9692 1. 9716	2B 3B	1. 990 1. 9900	2. 015 2. 0047	2. 0438 2. 0438	2. 0540 2. 0515	. 0102	2. 1250 2. 1250
2½-12 or 2. 125-12	UN	2A 3A	. 0018	2. 1232 2. 1250	2. 1118 2. 1136		2.0691 2.0709	2.0630 2.0664	. 0061	2. 0210 2. 0228	2B 3B	2. 035 2. 0350	2. 053 2. 0448	2. 0709 2. 0709	2. 0788 2. 0768	. 0079	2. 1250 2. 1250
2½-16 or 2. 125-16	UN	2A 3A	.0016	2. 1234 2. 1250	2. 1140 2. 1156		2. 0828 2. 0844	2. 0774 2. 0804	. 0054	2. 0467 2. 0483	2B 3B	2. 057 2. 0570	2. 071 2. 0658	2. 0844 2. 0844	2. 0914 2. 0896	.0070	2, 1250 2, 1250 2, 1250
2½-20 or 2. 125-20	UN	2A 3A	. 0015	2. 1235 2. 1250	2. 1154 2. 1169		2. 0910 2. 0925	2. 0861 2. 0888	. 0049	2. 0622 2. 0637	2B 3B	2. 071 2. 0710	2. 082 2. 0787	2. 0925 2. 0925	2. 0989 2. 0973	.0064	2. 1250 2. 1250 2. 1250
214-412 or 2, 250-4, 5	UNC	1A 2A 3A	.0029	2. 2471 2. 2471 2. 2500	2. 2141 2. 2251 2. 2280	2. 2141	2. 1028 2. 1028 2. 1057	2. 0882 2. 0931 2. 0984	. 0146 . 0097 . 0073	1. 9745 1. 9745 1. 9774	1B 2B 3B	2.009 2.009 2.0090	2. 045 2. 045 2. 0361	2. 1057 2. 1057 2. 1057	2. 1247 2. 1183 2. 1152	. 0190 . 0126 . 0095	2. 2500 2. 2500 2. 2500 2. 2500
2¼-6 or 2, 250-6	UN	2A 3A	. 0026	2. 2474 2. 2500	2. 2292 2. 2318		2. 1391 2. 1417	2. 1303 2. 1351	.0088	2. 0429 2. 0455	2B 3B	2. 070 2. 0700	2. 100 2. 0896	2. 1417 2. 1417	2. 1531 2. 1502	.0114	2. 2500 2. 2500
2½-8 or 2, 250-8	UN	2A 3A	. 0024	2. 2476 2. 2500	2. 2326 2. 2350	2. 2251	2. 1664 2. 1688	2. 1584 2. 1628	. 0080	2. 0942 2. 0966	2B 3B	2. 115 2. 1150	2. 140 2. 1297	2. 1688 2. 1688	2. 1792 2. 1766	.0104	2. 2500 2. 2500
2½-12 or 2, 250-12	UN	2A 3A	. 0018	2. 2482 2. 2500	2. 2368 2. 2386		2. 1941 2. 1959	2. 1880 2. 1914	. 0061	2. 1460 2. 1478	2B 3B	2. 160 2. 1600	2. 178 2. 1698	2. 1959 2. 1959	2. 2038 2. 2018	.0079	2. 2500 2. 2500
2½-16 or 2. 250-16	UN	2A 3A	. 0016	2, 2484 2, 2500	2. 2390 2. 2406		2. 2078 2. 2094	2. 2024 2. 2054	. 0054	2. 1717 2. 1733	2B 3B	2. 182 2. 1820	2. 196 2. 1908	2. 2094 2. 2094	2. 2164 2. 2146	. 0070	2. 2500 2. 2500
2½-20 or 2. 250-20	UN	2A 3A	. 0015	2. 2485 2. 2500	2. 2404 2. 2419		2. 2160 2. 2175	2. 2111 2. 2138	. 0049	2. 1872 2. 1887	2B 3B	2. 196 2. 1960	2. 207 2. 2037	2. 2175 2. 2175	2. 2239 2. 2223	. 0064	2. 2500 2. 2500
2 ³ %-6 or 2, 375-6	UN	2A 3A	. 0027	2. 3723 2. 3750	2. 3541 2. 3568		2. 2640 2. 2667	2. 2551 2. 2601	. 0089	2. 1678 2. 1705	2B 3B	2. 195 2. 1950	2. 226 2. 2146	2. 2667 2. 2667	2. 2782 2. 2753	. 0115	2. 3750 2. 3750
2 ³ 8-8 or 2. 375-8	UN	2A 3A	. 0024	2. 3726 2. 3750	2. 3576 2. 3600		2. 2914 2. 2938		.0081	2. 2192 2. 2216	2B 3B	2. 240 2. 2400		2. 2938 2. 2938			2. 3750 2. 3750 2. 3750
2 ³ %-12 or 2. 375-12	UN	2A 3A	. 0019	2. 3731 2. 3750	2. 3617 2. 3636		2. 3190 2. 3209	2. 3128 2. 3163	. 0062	2. 2709 2. 2728	2B 3B	2. 285 2. 2850	2. 303 2. 2948	2, 3209 2, 3209	2. 3290 2. 3269	. 0081	2. 3750 2. 3750
2 ³ 8-16 or 2. 375-16	UN	2A 3A	.0017	2. 3733 2. 3750	2. 3639 2. 3656		2. 3327 2. 3344	2. 3272 2. 3303	. 0055	2. 2966 2. 2983	2B 3B	2. 307 2. 3070	2. 321 2. 3158	2. 3344 2. 3344	2. 3416 2. 3398	. 0072	2. 3750 2. 3750 2. 3750
23/8-20 or 2, 375-20	UN	2A 3A	. 0015	2. 3735 2. 3750	2. 3654 2. 3669		2. 3410 2. 3425	2. 3359 2. 3387	. 0051	2. 3122 2. 3137	2B 3B	2, 321 2, 3210	2. 332 2. 3287	2. 3425 2. 3425	2. 3491 2. 3475	. 0066	2. 3750 2. 3750 2. 3750
2½-4 or 2.500-4	UNC	1A 2A 3A	. 0031 . 0031 . 0000	2. 4969 2. 4969 2. 5000	2. 4612 2. 4731 2. 4762	2. 4612	2. 3345 2. 3345 2. 3376	2. 3190 2. 3241 2. 3298	. 0155 . 0104 . 0078	2. 1902 2. 1902 2. 1933	1B 2B 3B	2. 229 2. 229 2. 2290	2, 267 2, 267 2, 2594	2. 3376 2. 3376 2. 3376	2. 3578 2. 3511 2. 3477	.0202	2. 5000 2. 5000 2. 5000
2½-6 or 2. 500-6	UN	2A 3A	. 0027	2. 4973 2. 5000	2. 4791 2. 4818		2. 3890 2. 3917	2. 3800 2. 3850	. 0090	2. 2928 2. 2955	2B 3B	2. 320 2. 3200	2. 350 2. 3396	2. 3917 2. 3917	2. 4033 2. 4004	. 0116	2. 5000 2. 5000
2½-8 or 2. 500-8	UN	2A 3A	. 0024	2. 4976 2. 5000	2. 4826 2. 4850	2.4751	2. 4164 2. 4188	2. 4082 2. 4127	. 0082	2. 3442 2. 3466	2B 3B	2. 365 2. 3650	2.390 2.3797	2. 4188 2. 4188	2. 4294 2. 4268	.0106	2. 5000 2. 5000
2½-12 or 2. 500-12	UN	2A 3A	. 0019	2. 4981 2. 5000	2. 4867 2. 4886		2, 4440 2, 4459	2. 4378 2. 4413	. 0062	2. 3959 2. 3978	2B 3B	2. 410 2. 4100	2. 428 2. 4198	2. 4459 2. 4459	2. 4540 2. 4519	. 0081	2. 5000 2. 5000
2½-16 or 2. 500-16	UN	2A 3A	. 0017	2. 4983 2. 5000	2. 4889 2. 4906		2. 4577 2. 4594	2. 4522 2. 4553	.0055	2. 4216 2. 4233	2B 3B	2. 432 2. 4320	2. 446 2. 4108	2. 4594 2. 4594	2. 4666 2. 4648	.0072	2. 5000 2. 5000 2. 5000

3.00

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Table III.10.—Standard series limits of size—Unified screw threads—Continued

-	1					Externa	l a							Internal	a		
Nominal size and threads per inch	Series designa- tion	Class	Allow-	Major	diamete	er limits	Pitch	diameter	limits	Minor diam-	Class	eter l	diam- imits	Pitch	diamete	r limits	Major diam- eter
per men		0.1455	wizee	Max b	Min	Min c	Max b	Min	Toler- ance	eter	- Table	Min	Max	Min	Max	Toler- ance	Min
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
2½-20 or 2, 500-20	UN	2 A 3 A	in. . 0015 . 0000	in. 2. 4985 2. 5000	in. 2. 4904 2. 4919	in.	in. 2. 4660 2. 4675	in. 2.4609 2.4637	in. .0051 .0038	in. 2.4372 2.4387	2B 3B	in. 2.446 2.4460	in. 2. 457 2. 4537	in. 2.4675 2.4675	in. 2.4741 2.4725	in. . 0066 . 0050	in. 2. 5000 2. 5000
25.6-6 or 2, 625-6	UN	2A 3A	. 0027 . 0000	2. 6223 2. 6250	2. 6041 2. 6068		2. 5140 2. 5167	2. 5050 2. 5099	. 0090	2. 4178 2. 4205	2B 3B	2. 445 2. 4450	2. 475 2. 4646	2. 5167 2. 5167	2. 5285 2. 5255	. 0118 . 0088	2. 6250 2. 6250
25%-8 or 2.625-8	UN	2A 3A	. 0025 . 0000	2. 6225 2. 6250	2. 6075 2. 6100		2. 5413 2. 5438	2. 5331 2. 5376	. 0082 . 0062	2. 4691 2. 4716	2B 3B	. 2. 490 2. 4900	2. 515 2. 5047	2. 5438 2. 5438	2. 5545 2. 5518	. 0107 . 0080	2. 6250 2. 6250
2 ⁵ %-12 or 2. 625-12	UN	2A 3A	. 0019	2. 6231 2. 6250	2. 6117 2. 6136		2. 5690 2. 5709	2. 5628 2. 5663	. 0062	2. 5209 2. 5228	2B 3B	2. 535 2. 5350	2. 553 2. 5448	2. 5709 2. 5709	2. 5790 2. 5769	. 0081 . 0060	2. 6250 2. 6250
25%-16 or 2. 625-16	UN	2A 3A	. 0017	2. 6233 2. 6250	2. 6139 2. 6156		2. 5827 2. 5844	2. 5772 2. 5803	. 0055 . 0041	2. 5466 2. 5483	2B 3B	2. 557 2. 5570	2. 571 2. 5658	2. 5844 2. 5844	2. 5916 2. 5898	. 0072	2. 6250 2. 6250
25 %-20 or 2. 625-20	UN	2A 3A	. 0015	2. 6235 2. 6250	2. 6154 2. 6169		2. 5910 2. 5925	2. 5859 2. 5887	. 0051 . 0038	2. 5622 2. 5637	2B 3B	2. 571 2. 5710	2. 582 2. 5787	2. 5925 2. 5925	2. 5991 2. 5975	. 0066	2. 6250 2. 6250
234-4 or 2.750-4	UNC	1A 2A 3A	. 0032 . 0032 . 0000	2. 7468 2. 7468 2. 7500	2. 7111 2. 7230 2. 7262	2. 7111	2. 5844 2. 5844 2. 5876	2. 5686 2. 5739 2. 5797	. 0158 . 0105 . 0079	2. 4401 2. 4401 2. 4433	1B 2B 3B	2. 479 2. 479 2. 4790	2. 517 2. 517 2. 5094	2. 5876 2. 5876 2. 5876	2. 6082 2. 6013 2. 5979	. 0206 . 0137 . 0103	2. 7500 2. 7500 2. 7500
234-6 or 2. 750-6	UN	2A 3A	. 0027	2. 7473 2. 7500	2. 7291 2. 7318		2. 6390 2. 6417	2. 6299 2. 6349	. 0091 . 0068	2. 5428 2. 5455	2B 3B	2. 570 2. 5700	2. 600 2. 5896	2. 6417 2. 6417	2. 6536 2. 6506	. 0119	2. 7500 2. 7500
234-8 or 2.750-8	UN	2A 3A	. 0025	2. 7475 2. 7500	2.7325 2.7350	2. 7250	2 6663 2. 6688	2. 6580 2. 6625	. 0083	2. 5941 2. 5966	2B 3B	2. 615 2. 6150	2. 640 2. 6297	2. 6688 2. 6688	2. 6796 2. 6769	.0108	2. 7500 2. 7500
2¾-12 or 2. 750-12	UN	2A 3A	. 0019	2. 7481 2. 7500	2. 7367 2. 7386		2. 6940 2. 6959	2. 6878 2. 6913	. 0062 . 0046	2. 6459 2. 6478	2B 3B	2.660 2.6600	2. 678 2. 6698	2. 6959 2. 6959	2. 7040 2. 7019	. 0081	2. 7500 2. 7500
234-16 or 2.750-16	UN	2A 3A	. 0017	2. 7483 2. 7500	2. 7389 2. 7406		2. 7077 2. 7094	2. 7022 2. 7053	. 0055	2. 6716 2. 6733	2B 3B	2. 682 2. 6820	2. 696 2. 6908	2. 7094 2. 7094	2, 7166 2, 7148	. 0072	2. 7500 2. 7500
234-20 or 2.750-20	UN	2A 3A	. 0015	2. 7485 2. 7500	2. 7404 2. 7419		2. 7160 2. 7175	2. 7109 2. 7137	. 0051	2. 6872 2. 6887	2B 3B	2. 696 2. 6960	2. 707 2. 7037	2. 7175 2. 7175	2. 7241 2. 7225	.0066	2. 7500 2. 7500
27.6-6 or 2.875-6	UN	2A 3A	. 0028	2.8722 2.8750	2. 8540 2. 8568		2. 7639 2. 7667	2. 7547 2. 7598	. 0092	2. 6677 2. 6705	2B 3B	2, 695 2, 6950	2. 725 2. 7146	2. 7667 2. 7667	2. 7787 2. 7757	.0120	2. 8750 2. 8750
27/8-8 or 2. 875-8	UN	2A 3A	. 0025	2. 8725 2. 8750	2. 8575 2. 8600		2. 7913 2. 7938	2. 7829 2. 7875	. 0084 . 0063	2. 7191 2. 7216	2B 3B	2. 740 2. 7400	2. 765 2. 7547	2. 7938 2. 7938	2. 8048 2. 8020	. 0110	2. 8750 2. 8750
278-12 or 2.875-12	UN	2A 3A	. 0019	2. 8731 2. 8759	2. 8617 2. 8636		2. 8190 2. 8209	2. 8127 2. 8162	. 0063 . 0047	2. 7709 2. 7728	2B 3B	2. 785 2. 7850	2, 803 2, 7948	2. 8209 2. 8209	2, 8291 2, 8271	. 0082	2. 8750 2. 8750
27/s-16 or 2. 875-16	UN	2A 3A	. 0017	2. 8733 2. 8750	2.8639 2.8656		2. 8327 2. 8344	2.8271 2.8302	. 0056	2. 7966 2. 7983	2B 3B	2. 807 2. 8070	2. 821 2. 8158	2. 8344 2. 8344	2. 8417 2. 8399	. 0073	2. 8750 2. 8750
276-20 or 2.875-20	UN	2A 3A	. 0016	2. 8734 2. 8750	2. 8653 2. 8669		2.8409 2.8425	2. 8357 2. 8386	. 0052	2. 8121 2. 8137	2B 3B	2. 821 2. 8210	2. 832 2. 8287	2. 8425 2. 8425	2. 8493 2. 8476	. 0068	2. 8750 2. 8750
3-4 or 3.000-4	UNC	1A 2A 3A	. 0032 . 0032 . 0000	2, 9968 2, 9968 3, 0000	2. 9611 2. 9730 2. 9762	2. 9611	2. 8344 2. 8344 2. 8376	2. 8183 2. 8237 2. 8296	. 0161 . 0107 . 0080	2. 6901 2. 6901 2. 6933	1B 2B 3B	2. 729 2. 729 2. 7290	2. 767 2. 767 2. 7594	2. 8376 2. 8376 2. 8376	2. 8585 2. 8515 2. 8480	. 0209 . 0139 . 0104	3, 0000 3, 0000 3, 0000
3-6 or 3. 000-6	UN	2A 3A	. 0028	2. 9972 3. 0000	2. 9790 2. 9818		2. 8889 2. 8917	2. 8796 2. 8847	. 0093 . 0070	2. 7927 2. 7955	2B 3B	2. 820 2. 8200	2. 850 2. 8396	2. 8917 2. 8917	2. 9038 2. 9008	. 0121	3.0000 3.0000
3-8 or 3.000-8	UN	2A 3A	. 0026	2. 9974 3. 0000	2. 9824 2. 9850	2. 9749	2. 9162 2. 9188	2. 9077 2. 9124	. 0085 . 0064	2.8440 2.8466	2B 3B	2.865 2.8650	2. 890 2. 8797	2. 9188 2. 9188	2. 9299 2. 9271	. 0111	3. 0000 3. 0000
3-12 or 3.000-12	UN	2A 3A	. 0019	2. 9981 3. 0000	2, 9867 2, 9886		2, 9440 2, 9459	2. 9377 2. 9412	. 0063	2. 8959 2. 8978	2B 3B	2. 910 2. 9100	2, 928 2, 9198	2. 9459 2. 9459	2. 9541 2. 9521	. 0082	3. 0000 3. 0000
3-16 or 3. 000-16	UN	2A 3A	.0017	2. 9983 3. 0000	2. 9889 2. 9906		2. 9577 2. 9594	2. 9521 2. 9552	. 0056	2, 9216 2, 9233	2B 3B	2. 932 2. 9320	2. 946 2. 9408	2. 9594 2. 9594	2. 9667 2. 9649	. 0073	3. 0000 3. 0000
3-20 or 3.000-20	UN	2A 3A	. 0016	2. 9984 3. 0000	2. 9903 2. 9919		2. 9659 2. 9675	2. 9607 2. 9636	. 0052	2. 9371 2. 9387	2B 3B	2. 946 2. 9460	2. 957 2. 9537	2. 9675 2. 9675	2. 9743 2. 9726	. 0068	3. 0000 3. 0000
3½-6 or 3. 125-6	UN	2A 3A	. 0028	3. 1222 3. 1250	3. 1040 3. 1068		3. 0139 3. 0167	3. 0045 3. 0097	. 0094	2. 9177 2. 9205	2B 3B	2. 945 2. 9450	2. 975 2. 9646	3. 0167 3. 0167	3, 0289 3, 0259	. 0122	3, 1250 3, 1250
3½-8 or 3. 125-8	UN	2A 3A	. 0026	3, 1224 3, 1250	3. 1074 3. 1100		3. 0412 3. 0438	3. 0326 3. 0374	. 0086	2. 9690 2. 9716	2B 3B	2, 990 2, 9900	3. 015 3. 0047	3. 0438 3. 0438	3. 0550 3. 0522	. 0112	3. 1250 3. 1250
3½-12 or 3.125-12	UN	2A 3A	. 0019	3. 1231 3. 1250	3. 1117 3. 1136		3. 0690 3. 0709	3. 0627 3. 0662	. 0063	3. 0209 3. 0228	2B 3B	3. 035 3. 0350	3. 053 3. 0448	3. 0709 3. 0709	3. 0791 3. 0771	. 0082	3. 1250 3. 1250
3½-16 or 3,125-16	UN	2A 3A	. 0017	3. 1233 3. 1250	3. 1139 3. 1156			3. 0771 3. 0802	. 0056	3. 0466 3. 0483	2B 3B	3. 057 3. 0570	3. 071 3. 0658	3. 0844 3. 0844	3. 0917 3. 0899	. 0073 . 0055	3. 1250 3. 1250

Table III.10.—Standard series limits of size—Unified screw threads—Continued

				<u> </u>	***************************************	External	G		· ·]	Internal	3		
Nominal size and threads per inch	Series designa- tion	Class	Allow- ance	Major	diamete	r limits	Pitch	diameter	limits	Minor	Class	Minor eter l	diam- imits	Pitch	diameter	limits	Major diam- eter
per men				Max b	Min	Min c	Max b	Min	Toler- ance	eter		Min	Max	Min	Max	Toler- ance	Min
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
3½-4 or 3,250-4	UNC	1A 2A 3A	in. . 0033 . 0033 . 0000	in. 3. 2467 3. 2467 3. 2500	in. 3. 2110 3. 2229 3. 2262	in.	in. 3. 0843 3. 0843 3. 0876	in. 3. 0680 3. 0734 3. 0794	in. . 0163 . 0109 . 0082	in. 2. 9400 2. 9400 2. 9433	1B 2B 3B	in, 2. 979 2. 979 2. 9790	in. 3.017 3.017 3.0094	in. 3. 0876 3. 0876 3. 0876	in. 3. 1088 3. 1017 3. 0982	in. . 0212 . 0141 . 0106	in. 3. 2500 3. 2500 3. 2500
3½-6 or 3.250-6	UN	2A 3A	. 0028	3. 2472 3. 2500	3. 2290 3. 2318		3. 1389 3. 1417	3. 1294 3. 1346	. 0095	3. 0427 3. 0455	2B 3B	3.070 3.0700	3. 100 3. 0896	3. 1417 3. 1417	3. 1540 3. 1509	. 0123	3. 2500 3. 2500
3½-8 or 3,250-8	UN	2A 3A	. 0026	3. 2474 3. 2500	3. 2324 3. 2350	3. 2249	3. 1662 3. 1688	3. 1575 3. 1623	. 0087	3. 0940 3. 0966	2B 3B	3. 115 3. 1150	3. 140 3. 1297	3. 1688 3. 1688	3. 1801 3. 1773	. 0113	3. 2500 3. 2500
3½-12 or 3.250-12	UN	2A 3A	. 0019	3. 2481 3. 2500	3. 2367 3. 2386		3. 1940 3. 1959	3. 1877 3. 1912	. 0063	3. 1459 3. 1478	2B 3B	3. 160 3. 1600	3. 178 3. 1698	3. 1959 3. 1959	3. 2041 3. 2021	. 0082	3. 2500 3. 2500
3½-16 or 3.250-16	UN	2A 3A	. 0017	3. 2483 3. 2500	3. 2389 3. 2406		3. 2077 3. 2094	3. 2021 3. 2052	. 0056	3. 1716 3. 1733	2B 3B	3. 182 3. 1820	3. 196 3. 1908	3. 2094 3. 2094	3. 2167 3. 2149	. 0073	3. 2500 3. 2500
33/s-6 or 3,375-6	UN	2A 3A	. 0029	3. 3721 3. 3750	3. 3539 3. 3568		3. 2638 3. 2667	3. 2543 3. 2595	. 0095	3, 1676 3, 1705	2B 3B	3. 195 3. 1950	3. 225 3. 2146	3. 2667 3. 2667	3. 2791 3. 2760	. 0124	3. 3750 3. 3750
33%-8 or 3.375-8	UN	2A 3A	. 0026	3. 3724 3. 3750	3. 3574 3. 3600		3. 2912 3. 2938	3. 2824 3. 2872	. 0088	3. 2190 3. 2216	2B 3B	3. 240 3. 2400	3. 265 3. 2547	3. 2938 3. 2938	3. 3052 3. 3023	. 0114	3. 3750 3. 3750
336-12 or 3,375-12	UN	2A 3A	. 0019	3. 3731 3. 3750	3. 3617 3. 3636		3. 3190 3. 3209	3. 3126 3. 3161	. 0064	3. 2709 3. 2728	2B 3B	3. 285 3. 2850	3. 303 3. 2948	3. 3209 3. 3209	3. 3293 3. 3272	. 0084	3. 3750 3. 3750
33%-16 or 3.375-16	UN	2A 3A	. 0017	3. 3733 3. 3750	3. 3639 3. 3656		3. 3327 3. 3344	3. 3269 3. 3301	. 0058	3. 2966 3. 2983	2B 3B	3. 307 3. 3070	3. 321 3. 3158	3. 3344 3. 3344	3. 3419 3. 3400	. 0075	3. 3750 3. 3750
3½-4 or 3.506–4	UNC	1 A 2 A 3 A	. 0033 . 0033 . 0000	3. 4967 3. 4967 3. 5000	3. 4610 3. 4729 3. 4762	3. 4610	3. 3343 3. 3343 3. 3376	3. 3177 3. 3233 3. 3293	. 0166 . 0110 . 0083	3. 1900 3. 1900 3. 1933	1B 2B 3B	3. 229 3. 229 3. 2290	3. 267 3. 267 3. 2594	3. 3376 3. 3376 3. 3376	3. 3591 3. 3519 3. 3484	. 0215 . 0143 . 0108	3. 5000 3. 5000 3. 5000
3½-6 or 3. 500-6	UN	2A 3A	. 0029	3. 4971 3. 5000	3. 4789 3. 4818		3. 3888 3. 3917	3. 3792 3. 3845	. 0096 . 0072	3. 2926 3. 2955	2B 3B	3. 320 3. 3200	3. 350 3. 3396	3. 3917 3. 3917	3. 4042 3. 4011	. 0125 . 0094	3. 5000 3. 5000
3½-8 or 3.500-8	UN	2A 3A	. 0026	3. 4974 3. 5000	3. 4824 3. 4850	3. 4749	3. 4162 3. 4188	3. 4074 3. 4122	. 0088	3. 3440 3. 3466	2B 3B	3. 365 3. 3650	3. 390 3. 3797	3. 4188 3. 4188	3. 4303 3. 4274	. 0115	3. 5000 3. 5000
3½-12 or 2,500-12	UN	2A 3A	. 0019	3. 4981 3. 5000	3. 4867 3. 4886		3. 4440 3. 4459	3. 4376 3. 4411	. 0064	3. 3959 3. 3978	2B 3B	3. 410 3. 4100	3. 428 3. 4198	4. 4459 3. 4459	3. 4543 3. 4522	. 0084	3. 5000 3. 5000
3½-16 or 3.500-16	UN	2A 3A	. 0017	3. 4983 3. 5000	3. 4889 3. 4906		3. 4577 3. 4594	3. 4519 3. 4551	. 0058	3. 4216 3. 4233	2B 3B	3. 432 3. 4320	3. 446 3. 4408	3. 4594 3. 4594	3. 4669 3. 4650	. 0075	3. 5000 3. 5000
356-6 or 3.625-6	UN	2A 3A	. 0029	3. 6221 3. 6250	3. 6039 3. 6068		3. 5138 3. 5167	3. 5041 3. 5094	. 0097	3. 4176 3. 4205	2B 3B	3. 445 3. 4450	3. 475 3. 4646	3. 5167 3. 5167	3. 5293 3. 5262	. 0126	3. 6250 3. 6250
35%-8 or 3. 625-8	UN	2A 3A	. 0027	3. 6223 3. 6250.	3. 6073 3. 6100		3. 5411 3. 5438	3. 5322 3. 5371	. 0089	3. 4689 3. 4716	2B 3B	3. 490 3. 4900	3. 515 3. 5047	3. 5438 3. 5438	3. 5554 3. 5525	. 0116	3. 6250 3. 6250
35%-12 or 3, 625-12	UN	2A 3A	.0019	3. 6231 3. 6250	3. 6117 3. 6136		3. 5690 3. 5709	3. 5626 3. 5661	. 0064	3. 5209 3. 5228	2B 3B	3. 535 3. 5350	3. 553 3. 5448	3. 5709 3. 5709	3. 5793 3. 5772	. 0084	3. 6250 3. 6250
35%-16 or 3. 625-16	UN	2A 3A	. 0017	3. 6233 3. 6250	3. 6139 3. 6156		3. 5827 3. 5844	3. 5769 3. 5801	. 0058	3. 5466 3. 5483	2B 3B	3. 557 3. 5570	3. 571 3. 5658	3. 5844 3. 5844	3. 5919 3. 5900	. 0075	3. 6250 3. 6250
3 ³ 4-4 or 3. 750-4	UNC	1A 2A 3A	. 0034 . 0034 . 0000	3. 7466 3. 7466 3. 7500	3. 7109 3. 7228 3. 7262	3. 7109	3. 5842 3. 5842 3. 5876	3. 5674 3. 5730 3. 5792	. 0168 . 0112 . 0084	3. 4399 3. 4399 3. 4433	1B 2B 3B	3. 479 3. 479 3. 4790	3. 517 3. 517 3. 5094	3. 5876 3. 5876 3. 5876	3. 6094 3. 6021 3. 5985	. 0218 . 0145 . 0109	3. 7500 3. 7500 3. 7500
3 ³ / ₄ -6 or 3, 750-6	UN	2A 3A	. 0029	3. 7471 3. 7500	3. 7289 3. 7318		3. 6388 3. 6417	3. 6290 3. 6344	. 0098	3. 5426 3. 5455	2B 3B	3. 570 3. 5700	3. 600 3. 5896	3. 6417 3. 6417	3. 6544 3. 6512	. 0127	3. 7500 3. 7500
3 ³ 4-8 or 3. 750-8	UN	2A 3A	. 0027	3. 7473 3. 7500	3. 7323 3. 7350	3. 7248	3. 6661 3. 6688	3. 6571 3. 6621	. 0090	3. 5939 3. 5966	2B 3B	3. 615 3. 6150	3. 640 3. 6297	3. 6688 3. 6688	3. 6805 3. 6776	. 0117	3. 7500 3. 7500
3 ³ 4-12 or 3, 750-12	UN	2A 3A	. 0019	3. 7481 3. 7500	3. 7367 3. 7386		3. 6940 3. 6959	3. 6876 3. 6911	. 0064	3. 6459 3. 6478	2B 3B	3. 660 3. 6600	3. 678 3. 6698	3. 6959 3. 6959	3. 7043 3. 7022	. 0084	3. 7500 3. 7500
3¾-16 or 3. 750-16	UN	2A 3A	. 0017	3. 7483 3. 7500	3. 7389 3. 7406		3. 7077 3. 7094	3. 7019 3. 7051	. 0058	3, 6716 3, 6733	2B 3B	3. 682 3. 6820	3. 696 3. 6908	3. 7094 3. 7094	3. 7169 3. 7150	.0075	3. 7500 3. 7500
376-6 or 3. 875-6	UN	2A 3A	. 0030	3. 8720 3. 8750	3, 8538 3, 8568		3. 7637 3. 7667	3. 7538 3. 7593	. 0099	3. 6675 3. 6705	2B 3B	3. 695 3. 6950	3. 725 3. 7146	3. 7667 3. 7667	3. 7795 3. 7763	. 0128	3. 8750 3. 8750
37%-8 or 3.875-8	UN	2A 3A	. 0027	3. 8723 3. 8750	3. 8573 3. 8600		3. 7911 3. 7938	3. 7820 3. 7870	. 0091	3. 7189 3. 7216	2B 3B	3. 740 3. 7400	3. 765 3. 7547	3. 7938 3. 7938	3. 8056 3. 8026	. 0118	3. 8750 3. 8750
37/6-12 or 3. 875-12	UN	2A 3A	. 0020	3. 8730 3. 8750	3. 8616 3. 8636		3. 8189 3. 8209	3. 8124 3. 8160	. 0065	3. 7708 3. 7728	2B 3B	3. 785 3. 7850	3. 803 3. 7948	3. 8209 3. 8209	3, 8294 3, 8273	. 0085	3, 8750 3, 8750
37%-16 or 3.875-16	UN	2A 3A	. 0018	3. 8732 3. 8750	3. 8638 3. 8656		3. 8326 3. 8344	3. 8267 3. 8300	. 0059	3. 7965 3. 7983	2B 3B	3. 807 3. 8070	3, 821 3, 8158	3. 8344 3. 8344	3. 8420 3. 8401	. 0076	3. 8750 3. 8750

Table III.10.—Standard series limits of size—Unified screw threads—Continued

						External	a	-						Internal	а		
Nominal size and threads per inch	Series designa- tion	Class	Allow-	Major	diamete	er limits	Pitch	diameter	limits	Minor diam-	Class		diam- imits	Pitch	diamete	r limits	Major diam- eter
permen				Max b	Min	Min c	Max b	Min	Toler- ance	eter		Min	Max	Min	Max	Toler- ance	Min
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
4-4 or 4.000-4	UNC	1A 2A 3A	in. . 0034 . 0034 . 0000	in. 3. 9966 3. 9966 4. 0000	in. 3. 9609 3. 9728 3. 9762	in.	in. 3.8342 3.8342 3.8376	in. 3. 8172 3. 8229 3. 8291	in. . 0170 . 0113 . 0085	in. 3. 6899 3. 6899 3. 6933	1B 2B 3B	in. 3. 729 3. 729 3. 7290	in. 3. 767 3. 767 3. 7594	in. 3. 8376 3. 8376 3. 8376	in. 3. 8597 3. 8523 3. 8487	in. . 0221 . 0147 . 0111	in. 4.0000 4.0000 4.0000
4-6 or 4.000-6	UN	2A 3A	. 0030	3. 9970 4. 0000	3. 9788 3. 9818		3. 8887 3. 8917	3. 8788 3. 8843	. 0099	3. 7925 3. 7955	2B 3B	3, 820 3, 8200	3. 850 3. 8396	3. 8917 3. 8917	3. 9046 3. 9014	. 0129	4. 0000 4. 0000
4-8 or 1.000-8	UN	2A 3A	. 0027	3. 9973 4. 0000	3. 9823 3. 9850	3. 9748	3. 9161 3. 9188	3. 9070 3. 9120	. 0091	3. 8439 3. 8466	2B 3B	3. 865 3. 8650	3. 890 3. 8797	3. 9188 3. 9188	3. 9307 3. 9277	. 0119	4. 0000 4. 0000
4-12 or 4. 000-12	UN	2A 3A	. 0020	3. 9980 4. 0000	3. 9866 3. 9886		3. 9439 3. 9459	3. 9374 3. 9410	. 0065	3. 8958 3. 8978	2B 3B	3. 910 3. 9100	3. 928 3. 9198	3. 9459 3. 9459	3. 9544 3. 9523	. 0085	4. 0000 4. 0000
4-16 or 4. 000-16	UN	2A 3A	. 0018	3.9982 4.0000	3.9888 3.9906		3. 9576 3. 9594	3. 9517 3. 9550	. 0059	3.9215 3.9233	2B 3B	3. 932 3. 9320	3. 946 3. 9408	3. 9594 3. 9594	3.9670 3.9651	. 0076	4. 0000 4. 0000
4½-6 or 4. 125-6	UN	2A 3A	. 0030	4. 1220 4. 1250	4. 1038 4. 1068		4. 0137 4. 0167	4.0037 4.0092	. 0100	3. 9175 3. 9205	2B 3B	3. 945 3. 9450	3. 975 3. 9646	4. 0167 4. 0167	4. 0297 4. 0264	. 0130	4. 1250 4. 1250
4½-12 or 4. 125-12	UN	2A 3A	. 0020	4. 1230 4. 1250	4. 1116 4. 1136		4. 0689 4. 0709	4.0624 4.0660	. 0065	4. 0208 4. 0228	2B 3B	4. 035 4. 0350	4. 053 4. 0448	4. 0709 4. 0709	4. 0794 4. 0773	. 0085	4. 1250 4. 1250
4½-16 or 4. 125-16	UN	2A 3A	. 0018	4. 1232 4. 1250	4. 1138 4. 1156		4. 0826 4. 0844	4. 0767 4. 0800	. 0059	4. 0465 4. 0483	2B 3B	4. 057 4. 0570	4. 071 4. 0658	4. 0844 4. 0844	4. 0920 4. 0901	.0076	4. 1250 4. 1250
4½-4 or 4. 250-4	UN	2A 3A	. 0034	4. 2466 4. 2500	4. 2228 4. 2262		4. 0842 4. 0876	4. 0727 4. 0790	. 0115	3. 9399 3. 9433	2B 3B	3. 979 3. 9790	4. 017 4. 0094	4. 0876 4. 0876	4. 1025 4. 0988	. 0149	4. 2500 4. 2500
4¼-6 or 4. 250-6	UN	2A 3A	. 0030	4. 2470 4. 2500	4. 2288 4. 2318		4. 1387 4. 1417	4. 1286 4. 1342	. 0101	4. 0425 4. 0455	2B 3B	4. 070 4. 0700	4. 100 4. 0896	4. 1417 4. 1417	4. 1548 4. 1515	. 0131	4, 2500 4, 2500
434-12 or 4, 250-12	UN	2A 3A	. 0020	4. 2480 4. 2500	4. 2366 4. 2386		4. 1939 4. 1959	4. 1874 4. 1910	. 0065	4. 1458 4. 1478	2B 3B	4. 160 4. 1600	4. 178 4. 1698	4. 1959 4. 1959	4. 2044 4. 2023	. 0085	4. 2500 4. 2500
4½-16 or 4. 250-16	UN	2A 3A	. 0018	4. 2482 4. 2500	4, 2388 4, 2406		4. 2076 4. 2094	4. 2017 4. 2050	. 0059	4. 1715 4. 1733	2B 3B	4. 182 4. 1820	4. 196 4. 1908	4. 2094 4. 2094	4. 2170 4. 2151	. 0076	4. 2500 4. 2500
436-6 or 4. 375-6	UN	2A 3A	. 0030	4. 3720 4. 3750	4. 3538 4. 3568		4. 2637 4. 2667	4. 2536 4. 2591	. 0101	4. 1675 4. 1705	2B 3B	4. 195 4. 1950	4. 225 4. 2146	4. 2667 4. 2667	4. 2799 4. 2766	. 0132	4. 3750 4. 3750
4 ³ / ₈ -12 or 4. 375-12	UN	2A 3A	. 0020	4. 3730 4. 3750	4. 3616 4. 3636		4. 3189 4. 3209	4. 3124 4. 3160	. 0065	4. 2708 4. 2728	2B 3B	4. 285 4. 2850	4. 303 4. 2948	4. 3209 4. 3209	4. 3294 4. 3273	. 0085	4. 3750 4. 3750
4 ³ / ₈ -16 or 4. 375-16	UN	2A 3A	. 0018	4. 3732 4. 3750	4. 3638 4. 3656		4. 3326 4. 3344	4. 3267 4. 3300	. 0059	4. 2965 4. 2983	2B 3B	4. 307 4. 3070	4. 321 4. 3158	4. 3344 4. 3344	4. 3420 4. 3401	.0076	4. 3750 4. 3750
4½-4 or 4. 500-4	UN	2A 3A	. 0035	4. 4965 4. 5000	4. 4727 4. 4762		4. 3341 4. 3376	4. 3225 4. 3289	. 0116	4. 1898 4. 1933	2B 3B	4. 229 4. 2290	4. 267 4. 2594	4. 3376 4. 3376	4. 3527 4. 3489	. 0151	4. 5000 4. 5000
4½-6 or 4.500-6	UN	2A 3A	. 0031	4. 4969 4. 5000	4. 4787 4. 4818		4. 3886 4. 3917	4. 3784 4. 3840	. 0102	4. 2924 4. 2955	2B 3B	4. 320 4. 3200	4. 350 4. 3396	4. 3917 4. 3917	4. 4050 4. 4016	. 0133	4. 5000 4. 5000
4½-12 or 4. 500-12	UN	2A 3A	. 0020	4. 4980 4. 5000	4. 4866 4. 4886		4. 4439 4. 4459	4. 4374 4. 4410	. 0065	4. 3958 4. 3978	2B 3B	4. 410 4. 4100	4. 428 4. 4198	4. 4459 4. 4459	4. 4544 4. 4523	. 0085	4. 5000 4. 5000
4½-16 or 4. 500-16	UN	2A 3A	. 0018	4. 4982 4. 5000	4. 4888 4. 4906		4. 4576 4. 4594	4. 4517 4. 4550	. 0059	4. 4215 4. 4233	2B 3B	4. 432 4. 4320	4. 446 4. 4408	4. 4594 4. 4594	4. 4670 4. 4651	. 0076	4. 5000 4. 5000
45%-6 or 4. 625-6	UN	2A 3A	. 0031	4. 6219 4. 6250	4. 6037 4. 6068		4. 5136 4. 5167	4. 5033 4. 5090	. 0103	4. 4174 4. 4205	2B 3B	4. 445 4. 4450	4. 475 4. 4646	4. 5167 4. 5167	4. 5300 4. 5267	. 0133	4. 6250 4. 6250
45%-12 or 4. 625-12	UN	2A 3A	. 0020	4. 6230 4. 6250	4. 6116 4. 6136		4. 5689 4. 5709	4. 5622 4. 5659	. 0067	4. 5208 4. 5228	2B 3B	4. 535 4. 5350	4. 553 4. 5448	4. 5709 4. 5709	4. 5796 4. 5775	. 0087	4. 6250 4. 6250
45%-16 or 4. 625-16	UN	2A 3A	. 0018	4. 6232 4. 6250	4. 6138 4. 6156		4. 5826 4. 5844	4. 5765 4. 5799	. 0061	4. 5465 4. 5483	2B 3B	4. 557 4. 5570	4. 571 4. 5658	4. 5844 4. 5844	4. 5923 4. 5903	. 0079	4. 6250 4. 6250
4 ³ / ₄ -4 or 4. 750–4	UN	2A 3A	. 0035	4. 7465 4. 7500	4. 7227 4. 7262		4. 5841 4. 5876	4. 5724 4. 5788	. 0117	4. 4398 4. 4433	2B 3B	4. 479 4. 4790	4. 517 4. 5094	4. 5876 4. 5876	4. 6029 4. 5990	. 0153	4. 7500 4. 7500
434-6 or 4. 750-6	UN	2A 3A	. 0031	4. 7469 4. 7500	4. 7287 4. 7318		4. 6386 4. 6417	4. 6283 4. 6340	. 0103	4. 5424 4. 5455	2B 3B	4. 570 4. 5700	4. 600 4. 5896	4. 6417 4. 6417	4. 6551 4. 6518	. 0134	4. 7500 4. 7500
4¾-12 or 4.750-12	UN	2A 3A	.0020	4. 7480 4. 7500	4. 7366 4. 7386		4. 6939 4. 6959	4. 6872 4. 6909	. 0067	4. 6458 4. 6478	2B 3B	4. 660 4. 6600	4. 678 4. 6698	4. 6959 4. 6959	4. 7046 4. 7025	. 0087	4. 7500 4. 7500
4¾-16 or 4. 750-16	UN	2A 3A	. 0018	4. 7482 4. 7500	4. 7388 4. 7406		4. 7076 4. 7094	4. 7015 4. 7049	. 0061	4. 6715 4. 6733	2B 3B	4. 682 4. 6820	4. 696 4. 6908	4. 7094 4. 7094	4. 7173 4. 7153	. 0079	4. 7500 4. 7500
47/8-6 or 4. 875-6	UN	2A 3A	. 0031	4. 8719 4. 8750	4. 8537 4. 8568		4. 7636 4. 7667	4. 7532 4. 7589	. 0104	4. 6674 4. 6705	2B 3B	4. 695 4. 6950	4. 725 4. 7146	4. 7667 4. 7667	4. 7802 4. 7768	. 0135	4. 8750 4. 8750
47/8-12 or 4. 875-12	UN	2A 3A	. 0020	4. 8730 4. 8750	4. 8616 4. 8636		4. 8189 4. 8209	4. 8122 4. 8159	. 0067	4. 7708 4. 7728	2B 3B	4. 785 4. 7850	4. 803 4. 7948	4. 8209 4. 8209	4. 8296 4. 8275	. 0087	4. 8750 4. 8750

Table III.10.—Standard series limits of size—Unified screw threads—Continued

						External	a]	Internal	a		
Nominal size and threads per inch	Series designa- tion	Class	Allow-	Major	diamete	r limits	Pitch d	liameter i	limits	Minor diam-	Class	Minor eter 1		Pitch d	iameter l	imits	Major diam- eter
301				Max b	Min	Min c	Max b	Min	Toler- ance	eter		Min	Max	Min	Max	Toler- ance	Min
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
476-16 or 4. 875-16	UN	2A 3A	in. . 0018 . 0000	in. 4. 8732 4. 8750	in, 4, 8638 4, 8656	in.	in. 4.8326 4.8344	in. 4.8265 4.8299	in. .0061 .0045	in. 4. 7965 4. 7983	2B 3B	in. 4.807 4.8070	in, 4, 821 4, 8158	in. 4. 8344 4. 8344	in. 4. 8423 4. 8403	in. .0079 .0059	in, 4. 8750 4. 8750
5-4 or 5.000-4	UN	2A 3A	. 0036	4. 9964 5. 0000	4. 9726 4. 9762		4. 8340 4. 8376	4. 8221 4. 8287	. 0119 . 0089	4. 6897 4. 6933	2B 3B	4. 729 4. 7290	4. 767 4. 759 4	4. 8376 4. 8376	4. 8530 4. 8492	. 0154 . 0116	5. 0000 5. 0000
5-6 or 5. 000-6	UN	2A 3A	. 0031	4. 9969 5. 0000	4. 9787 4. 9818		4. 8886 4. 8917	4. 8781 4. 8839	. 0105 . 0078	4. 7924 4. 7955	2B 3B	4. 820 4. 8200	4. 850 4. 8396	4. 8917 4. 8917	4. 9053 4. 9019	. 0136 . 0102	5. 0000 5. 0000
5–12 or 5. 000–12	UN	2A 3A	. 0020	4. 9980 5. 0000	4. 9866 4. 9886		4. 9439 4. 9459	4. 9372 4. 9409	. 0067	4. 8958 4. 8978	2B 3B	4. 910 4. 9100	4. 928 4. 9198	4. 9459 4. 9459	4. 9546 4. 9525	. 0087	5. 0000 5. 0000
5-16 or 5. 000-16	UN	2A 3A	. 0018	4. 9982 5. 0000	4. 9888 4. 9906		4. 9576 4. 9594	4. 9515 4. 9549	. 0061	4. 9215 4. 9233	2B 3B	4. 932 4. 9320	4. 946 4. 9408	4. 9594 4. 9594	4. 9673 4. 9653	. 0079	5. 0000 5. 0000
5½-12 or 5. 125-12	UN	2A 3A	. 0020	5. 1230 5. 1250	5. 1116 5. 1136		5. 0689 5. 0709	5. 0622 5. 0659	.0067	5. 0208 5. 0228	2B 3B	5. 035 5. 0350	5. 053 5. 0448	5. 0709 5. 0709	5. 0796 5. 0775	. 0087	5. 1250 5. 1250
5½-16 or 5. 125-16	UN	2A 3A	. 0018	5. 1232 5. 1250	5. 1138 5. 1156		5. 0826 5. 0844	5. 0765 5. 0799	. 0061	5. 0465 5. 0483	2B 3B	5. 057 5. 0570	5. 071 5. 0658	5. 0844 5. 0844	5. 0923 5. 0903	. 0079 . 0059	5. 1250 5. 1250
5¼-4 or 5. 250-4	UN	2A 3A	. 0036	5. 2464 5. 2500	5. 2226 5. 2262		5. 0840 5. 0876	5. 0720 5. 0786	. 0120	4. 9397 4. 9433	2B 3B	4. 979 4. 9790	5. 017 5. 0094	5. 0876 5. 0876	5. 1032 5. 0993	. 0156	5. 2500 5. 2500
5½-12 or 5. 250-12	UN	2A 3A	. 0020	5. 2480 5. 2500	5. 2366 5. 2386		5. 1939 5. 1959	5. 1872 5. 1909	. 0067	5. 1458 5. 1478	2B 3B	5. 160 5. 1600	5. 178 5. 1698	5. 1959 5. 1959	5. 2046 5. 2025	. 0087	5. 2500 5. 2500
5!4-16 or 5. 250-16	UN	2A 3A	. 0018	5. 2482 5. 2500	5. 2388 5. 2406		5. 2076 5. 2094	5. 2015 5. 2049	. 0061	5. 1715 5. 1733	2B 3B	5. 182 5. 1820	5. 196 5. 1908	5, 2094 5, 2094	5. 2173 5. 2153	. 0079	5. 2500 5. 2500
53 %-12 or 5. 375-12	UN	2A 3A	. 0020	5. 3730 5. 3750	5, 3616 5, 3636		5. 3189 5. 3209	5. 3122 5. 3159	. 0067	5. 2708 5. 2728	2B 3B	5. 285 5. 2850	5. 303 5. 2948	5. 3209 5. 3209	5. 3296 5. 3275	. 0087	5. 3750 5. 3750
53 %-16 or 5. 375-16	UN	2A 3A	. 0018	5. 3732 5. 3750	5. 3638 5. 3656		5. 3326 5. 3344	5. 3265 5. 3299	. 0061	5. 2965 5. 2983	2B 3B	5. 307 5. 3070	5. 321 5. 3158	5. 3344 5. 3344	5. 3423 5. 3403	. 0079	5. 3750 5. 3750
5½-4 or 5,500-4	UN	2A 3A	. 0036	5. 4964 5. 5000	5. 4726 5. 4762		5. 3340 5. 3376	5. 3219 5. 3285	. 0121	5. 1897 5. 1933	2B 3B	5. 229 5. 2290	5. 267 5. 2594	5. 3376 5. 3376	5. 3534 5. 3494	. 0158	5. 5000 5. 5000
5½-12 or 5. 500-12	UN	2A 3A	. 0020	5. 4980 5. 5000	5. 4866 5. 4886		5. 4139 5. 4459	5. 4372 5. 4409	. 0067	5. 3958 5. 3978	2B 3B	5. 410 5. 4100	5. 428 5. 4198	5. 4459 5. 4459	5. 4546 5. 4525	. 0087	5. 5000 5. 5000
5½-16 or 5. 500-16	UN	2A 3A	. 0018	5. 4982 5. 5000	5. 4888 5. 4906		5. 4576 5. 4594	5. 4515 5. 4549	. 0061	5. 4215 5. 4233	2B 3B	5. 432 5. 4320	5. 446 5. 4408	5. 4594 5. 4594	5. 4673 5. 4653	. 0079	5. 5000 5. 5000
55%-12 or 5, 625-12	UN	2A 3A	. 0021	5, 6229 5, 6250	5. 6115 5. 6136		5. 5688 5. 5709	5. 5619 5. 5657	. 0069	5. 5207 5. 5228	2B 3B	5. 535 5. 5350	5. 553 5. 5448	5. 5709 5. 5709	5. 5799 5. 5776	. 0090	5. 6250 5. 6250
55%16 or 5. 62516	UN	2A 3A	. 0019	5. 6231 5. 6250	5. 6137 5. 6156		5. 5825 5. 5844	5. 5763 5. 5797	. 0062	5. 5464 5. 5483	2B 3B	5. 557 5. 5570	5. 571 5. 5658	5, 5844 5, 5844	5. 5925 5. 5905	. 0081	5. 6250 5. 6250
534-4 or 5. 750-4	UN	2A 3A	. 0037	5. 7463 5. 7500	5. 7225 5. 7262		5. 5839 5. 5876	5. 5717 5. 5784	. 0122	5. 4396 5. 4433	2B 3B	5. 479 5. 4790	5. 517 5. 5094	5. 5876 5. 5876	5. 6035 5. 5995	. 0159	5. 7500 5. 7500
5 ³ 1-12 or 5. 750-12	UN	2A 3A	. 0021	5. 7479 5. 7500	5. 7365 5. 7386		5. 6938 5. 6959	5. 6869 5. 6907	. 0069	5. 6457 5. 6478	2B 3B	5. 660 5. 6600	5. 678 5. 6698	5. 6959 5. 6959	5. 7049 5. 7026	. 0090	5. 7500 5. 7500
5 ³ 4-16 or 5. 750-16	UN	2A 3A	. 0019	5. 7481 5. 7500	5. 7387 5. 7406		5. 7075 5. 7094	5. 7013 5. 7047	. 0062	5. 6714 5. 6733	2B 3B	5. 682 5. 6820	5. 696 5. 6908	5. 7094 5. 7091	5. 7175 5. 7155	. 0081	5. 7500 5. 7500
57%-12 or 5. 875-12	UN	2A 3A	. 0021	5. 8729 5. 8750	5, 8615 5, 8636		5. 8188 5. 8209	5. 8119 5. 8157	. 0069	5. 7707 5. 7728	2B 3B	5. 785 5. 7850	5. 803 5. 7948	5. 8209 5. 8209	5. 8299 5. 8276	. 0090	5. 8750 5. 8750
57.6-16 or 5. 875-16	UN	2A 3A	. 0019	5. 8731 5. 8750	5, 8637 5, 8656		5. 8325 5. 8344	5. 8263 5. 8297	. 0062	5. 7964 5. 7983	2B 3B	5. 807 5. 8070	5. 821 5. 8158	5. 8344 5. 8344	5. 8425 5. 8405	. 0081	5. 8750 5. 8750
6-4 or 6. 000 -4	UN	2A 3A	. 0037	5. 9963 6. 0000	5. 9725 5. 9762		5. 8339 5. 8376	5. 8215 5. 8283	. 0124	5. 6896 5. 6933	2B 3B	5. 729 5. 7290	5. 767 5. 7594	5. 8376 5. 8376	5. 8537 5. 8496	. 0161	6. 0000
6-12 or 6, 000-12	UN	2A 3A	. 0000	5. 9979 6. 0000	5. 9865 5. 9886		5. 9438 5. 9459	5. 9369 5. 9407	. 0069	5. 8957 5. 8978	2B 3B	5. 910 5. 9100	5. 928 5. 9198	5. 9459 5. 9459	5. 9549 5. 9526	. 0090	6. 0000
6-16 or 6. 099-16	UN	2A 3A	. 0019	5. 9981 6. 0000	5. 9887 5. 9906		5. 9575	5. 9513 5. 9547	. 0062	5. 9214 5. 9233	2B 3B	5. 932 5. 9320	5. 946 5. 9408	5. 9594 5. 9594	5, 9675 5, 9655	. 0007	6. 0000

<sup>Regarding combinations of thread classes, see par. I, p. 18, Part I.
For class 2A threads having an additive finish the maximum is increased to the basic size, the value being the same as for class 3A shown in this column.
See par. 2, p. 23, Part I and par. 4, p. 16 in this Supplement.
For unfinished hot-rolled material.
See fig; III.1, p. 2 in this Supplement; figs. III.3 and III.4, pp. 24 and 25, Part I.
Revised minor diameter limits of classes 1B and 2B are in process of ratification as Unified Standard.</sup>

Table III.11.—Deviations in lead and half-angle equivalent to one-half of pitch diameter tolerances, Unified screw threads

				External					Internal		
Nominal size and threads per inch	Series des- ignation	Class	Half of pitch diameter tolerance	Equivalent deviation in lead	devi	ivalent ation in f-angle	Class	Half of pitch diameter tolerance	Equivalent deviation in lead	devia	valent tion in angle
1	2	3	4	5		6	7	8	9	:	10
0-80 or . 060-80	UNF	2A 3A	in. 0.00090 .00065	in. 0. 00052 . 00038	deg 3 2	min 18 23	2B 3B	in. 0.00115 .00085	in 0.00066 .00049	$\begin{array}{c} deg \\ 4 \\ 3 \end{array}$	min 13 7
1–64 or . 073–64	UNC	2A 3A	. 00100	. 00058 . 00043	2 2	56 12	2B 3B	. 00130	. 00075 . 00055	3 2	48 47
1-72 or . 073-72	UNF	2A 3A	. 00095 . 00070	. 00055 . 00040	3 2	8 19	2B 3B	. 00125	. 00072 . 00055	4 3	7 8
2-56 or . 086-56	UNC	2A 3A	. 00105 . 00080	. 00061 . 00046	2 2	42	2B 3B	. 00140	. 00081 . 00061	3 2	35 42
2-64 or . 086-64	UNF	2A 3A	.00100	. 00058	2 2	56 12	2B 3B	. 00135	. 00078	3 2	57 56
3-48 or . 099-48	UNC	2A 3A	. 00115 . 00085	. 00066	2 1	32 52	2B 3B	. 00150 . 00110	.00087	3 2	18 25
3–56 or . 099–56	UNF	2A 3A	. 00110 00080	. 00064	2 2	49	2B 3B	. 00140	. 00081	3 2	35 42
4–40 or . 112–40	UNC	2A 3A	. 00125	. 00072	2 1	17 44	2B 3B	. 00165	. 00095	3 2	1 12
4-48 or . 112-48	UNF	2A 3A	. 00120	. 00069 . 00052	2 1	38 59	2B 3B	. 00155 . 00115	. 00089	3 2	24 32
5-40 or . 125-40	UNC	2A 3A	. 00130 . 00095	. 00075	2 1	23 44	2B 3B	. 00165 . 00125	. 00095	3 2	1 17
5-44 or .125-44	UNF	2 A 3 A	. 00125	. 00072	2 1	31 55	2B 3B	.00160	. 00092	3 2	13 25
6-32 or .138-32	UNC	2A 3A	. 00140	.00081	2 1	3 32	2B 3B	. 00185 . 00135	.00107	2 1	43 59
6–40 or .138–40	UNF	2A 3A	. 00130	. 00075	2 1	23 50	2B 3B	. 00170	. 00098	3 2	7 17
8-32 or .164-32	UNC	2A 3A	. 00145	. 00084	2 1		2B 3B	. 00190	.00110	$\frac{2}{2}$	47
8-36 or .164-36	UNF	2A 3A	. 00140	. 00081	2 1	19 44	2B 3B	. 00180 . 00135	. 00104	2 2	58 14
10-24 or .190-24	UNC	2A 3A	. 00165 . 00125	.00095	1 1	49 22	2B 3B	. 00215	.00124	2 1	22 46
10-32 or .190-32	UNF	2A 3A	.00150	. 00087	2 1	12 41	2B 3B	. 00195	. 00113	2 2	51 8
12-24 or .216-24	UNC	2A 3A	.00170	.00098	1 1	52 26	2B 3B	.00220	. 00127	2 1	25 49
12–28 or .216–28	UNF	2A 3A	. 00160	. 00092	2 1	3 32	2B 3B	00210 . 00155	.00121	2	42 59
12-32 or . 216-32	UNEF	2A 3A	. 00155 . 00120	.00089	2 1	16 46	2B 3B	. 00205 . 00155	. 00118	3 2	0 16
½-20 or .250-20	UNC	1A 2A 3A	. 00280 . 00185 . 00140	. 00162 . 00107 . 00081	2 1 1	34 42 17	1B 2B 3B	. 00365 . 00245 . 00180	. 00211 . 00141 . 00104	3 2 1	21 15 39
14-28 or .250-28	UNF	1A 2A 3A	.00250 .00165 .00125	. 00144 . 00095 . 00072	3 2 1	12 7 36	1B 2B 3B	. 00325 . 00215 . 00160	. 00188 . 00124 . 00092	4 2 2	10 45 3
½-32 or .250-32	UNEF	2A 3A	. 00160 . 00120	.00092	2 1	21 46	2B 3B	. 00210 . 00155	. 00121 . 00089	3 2	5 16
5/16-18 or .3125-18	UNC	1A 2A 3A	. 00305 . 00200 . 00150	. 00176 . 00115 . 00087	2 1 1	31 39 14	1B 2B 3B	. 00395 . 00265 . 00195	. 00228 . 00153 . 00113	3 2 1	15 11 37
5/16-20 or .3125-20	UN	2A 3A	. 00200 . 00150	. 00115 . 00087	1 1	50 22	2B 3B	. 00260 . 00195	. 00150 . 00113	2 1	23 47
5/16-24 or .3125-24	UNF	1A 2A 3A	. 00275 . 00185 . 00135	. 00159 . 00107 . 00078	3 2 1	1 2 29	1B 2B 3B	. 00355 . 00240 . 00180	. 00205 . 00139 . 00104	3 2 1	54 38 59
5/16-28 or . 3125-28	UN	2A 3A	. 00170 . 00130	. 00098	2	11 40	2B 3B	. 00220 00165	. 00127 . 00095	2 2	49 7
5/16-32 or . 3125-32	UNEF	2A 3A	. 00160 . 00120	. 00092	2	21 46	2B 3B	. 00210 . 00155	.00121	3 2	5 16
3%-16 or . 375-16	UNC	1A 2A 3A	. 00325 . 00220 . 00165	. 00188 . 00127 . 00095	2 1 1	23 37 13	1B 2B 3B	. 00425 . 00285 . 00215	. 00245 . 00165 . 00124	3 2 1	7 5 35

Table III.11.—Deviations in lead and half-angle equivalent to one-half of pitch diameter tolerances, Unified screw threads—Con.

TABL

		1		External					Internal		
Nominal size and threads per inch	Series des- ignation	Class	Half of pitch diameter tolerance	Equivalent deviation in lead	devia	valent tion in angle	Class	Half of pitch diameter tolerance	Equivalent deviation in lead		valent tion in angle
1	2	3	4	5		6	7	8	9	1	.0
36-20 or . 375-20	UN	2A 3A	in. . 00205 . 00155	in. . 00118 . 00089	deg 1 1	min 53 25	2B 3B	in. . 00270 . 00200	in. . 00156 . 00115	deg 2 1	min 28 50
³ 6-24 or . 375-24	UNF	1 A 2 A 3 A	. 00285 . 00190 . 00145	. 00165 . 00110 . 00084	3 2 1	8 5 36	1B 2B 3B	. 00370 . 00245 . 00185	. 00214 . 00141 . 00107	4 2 2	$\begin{array}{c} 4\\42\\2\end{array}$
3/6-28 or . 375-28	UN	2A 3A	. 00180	. 00104	2 1	19 44	2B 3B	. 00230	. 00133 . 00101	2 2	57 15
3/4-32 or . 375-32	UNEF	2A 3A	. 00170 . 00125	. 00098 . 00072	2	30 50	2B 3B	. 00220 . 00165	. 00127	3 2	13 25
⁷ 16-14 or . 4375-14	UNC	1A 2A 3A	. 00355 . 00235 . 00175	. 00205 . 00136 . 00101	2 1 1	17 30 7	1B 2B 3B	. 00460 . 00305 . 00230	. 00266 . 00176 . 00133	2 1 1	57 57 29
7/16−16 or . 4375−16	UN	2A 3A	. 00230 . 00170	. 00133	1 1	41 15	2B 3B	. 00295 . 00225	. 00170	2	10 39
₹1 ₆ −20 or . 4375−20	UNF	1A 2A 3A	. 00315 . 00210 . 00155	. 00182 . 00121 . 00089	2 1 1	53 55 25	1B 2B 3B	. 00405 . 00270 . 00205	. 00234 . 00156 . 00118	3 2 1	42 28 53
7/16-28 or . 4375-28	UNEF	2A 3A	.00180	.00104	2 1	19 44	2B 3B	. 00230	. 00133	2 2	57 15
7∕16−32 or , 4375−32	UN	2A 3 A	.00170	. 00098	2 1	30 50	2B 3B	. 00220 . 00165	. 00127	3 2	13 25
½-13 or . 500-13	UNC	1A 2A 3A	. 00370 . 00250 . 00185	. 00214 . 00144 . 00107	2 1 1	12 29 6	1B 2B 3B	. 00485 . 00325 . 00240	. 00280 . 00188 . 00139	2 1 1	53 56 26
1/4−16 or . 500−16	UN	2A 3A	. 00235 . 00175	. 00136	1 1	43 17	2B 3B	. 00305	. 00176 . 00133	2 1	14 41
½-20 or . 500-20.	UNF	1A 2A 3A	. 00320 . 00215 . 00160	. 00185 . 00124 . 00092	2 1 1	56 58 28	1B 2B 3B	. 00420 . 00280 . 00210	. 00242 . 00162 . 00121	3 2 1	51 34 55
1/2-28 or . 500-28	UNEF	2A 3A	. 00185 . 00140	. 00107	2 1	22 48	2B 3B	. 00240	. 00139	3 2	5
½-32 or . 500-32	UN	2A 3A	. 00175 . 00130	. 00101 . 00075	2	34 54	2B 3B	. 00225 . 00170	. 00130 . 00098	3 2	18 30
%16-12 or . 5625-12	UNC	1A 2A 3A	. 00390 . 00260 . 00195	. 00225 . 00150 . 00113	2 1 1	9 26 4	1B 2B 3B	. 00510 . 00340 . 00255	. 00294 . 00196 . 00147	2 1 1	48 52 24
%16-16 or . 5625-16	UN	2A 3A	. 00235 . 00175	. 00136	1 1	43 17	2B 3B	. 00305 . 00230	. 00176	2	14
% 6-18 or . 5625-18	UNF	1A 2A 3A	. 00340 . 00225 . 00170	. 00196 . 00130 . 00098	2 1 1	48 51 24	1B 2B 3B	. 00445 . 00295 . 00220	. 00257 . 00170 . 00127	3 2 1	40 20 49
%16-20 or . 5625-20	UN	2A 3A	. 00210	. 00121	1 1	55 28	2B 3B	. 00275	. 00159	2 1	3:
% 6-24 or . 5625-24	UNEF	2A 3A	. 00195 . 00145	. 00113	2 1	9 36	2B 3B	. 00255	. 00147	2 2	48
9/16-28 or . 5625-28	UN	2A 3A	. 00185	. 00107	2 1	22 48	2B 3B	. 00240	. 00139 . 00104	3 2	19
916-32 or . 5625-32	UN	2A 3A	. 00175 . 00130	. 00101	2	34 54	2B 3B	. 00225	. 00130	3 2	18
5%-11 or . 625-11	UNC	1A 2A 3A	. 00415 . 00275 . 00205	. 00240 . 00159 . 00118	2 1 1	5 23 2	1B 2B 3B	. 00535 . 00360 . 00270	. 00309 . 00208 . 00156	2 1 1	49
5%-12 or . 625-12	UN	2A 3A	. 00270 . 00205	. 00156	1 1	29 8	2B 3B	. 00355 . 00265	. 00205 . 60153	1 1	5
5%-16 or . 625-16	UN	2A 3A	. 00240	. 00139	1	46 19	2B 3B	. 00310 . 00230	. 00179	2	16
5%-18 or . 625-18	UNF	1A 2A 3A	. 00350 . 00235 . 00175	. 00202 . 00136 . 00101	2 1 1	53 56 27	1B 2B 3B	. 00455 . 00300 . 00225	. 00263 . 00173 . 00130	3 2 1	48 28 51
5%-20 or . 625-20	UN	2A 3A	. 00215 . 00160	. 00124	1 1	58 28	2B 3B	. 00280	. 00162 . 00121	2 1	34 58
5/8-24 or . 625-24	UNEF	2A 3A	. 00200	. 00115	2	12 39	2B 3B	. 00260	. 00150 . 00113	2 2	51 8

Table III.11.—Deviations in lead and half-angle equivalent to one-half of pitch diameter tolerances, Unified screw threads—Con.

				External					Internal		
Nominal size and threads per inch	Series des- ignation	Class	Half of pitch diameter tolerance	Equivalent deviation in lead	devia	ivalent tion in -angle	Class	Half of pitch diameter tolerance	Equivalent deviation in lead	devia	valent tion in angle
1	2	3	4	5		6	7	8	9		10
5%-28 or . 625-28	UN	2A 3A	in. . 00190 . 00140	in. .00110 .00081	$^{deg}_{\substack{2\\1}}$	min 26 48	2B 3B	in. . 00245 . 00185	in. . 00141 . 00107	$_{\substack{\frac{3}{2}}}$	min 8 22
5%-32 or . 625-32	UN	2A 3A	. 00180 . 00135	. 00104	2 1	38 59	2B 3B	. 00230 . 00175	. 00133	3 2	22 34
1½ ₁₆ –12 or . 6875–12	UN	2A 3A	. 00270 . 00205	. 00156 . 00118	1	29 8	2B 3B	. 00355 . 00265	. 00205 . 00153	1	57 27
1½6-16 or . 6875-16	UN	2A 3A	. 00240	. 00139 . 00104	1 1	46 19	2B 3B	. 00310 . 00230	. 00179 . 00133	2	16 41
1½6-20 or . 6875-20	UN	2A 3A	. 00215 . 00160	. 00124	1 1	58 28	2B 3B	. 00280 . 00210	. 00162 . 00121	2	34 55
1½16-24 or . 6875-24	UNEF	2A 3A	. 00200 . 00150	. 00115 . 00087	2	12 39	2B 3B	. 00260 . 00195	. 00150 . 00113	2 2	51 9
1½6-28 or . 6875-28	UN	2A 3A	. 00190 . 00140	. 00110 . 00081	$\frac{2}{1}$	26 48	2B 3B	. 00245 . 00185	. 00141 . 00107	3 2	8 22
1½6-32 or . 6875-32	UN	2A 3A	. 00180 . 00135	. 00104 . 00078	2 1	38 59	2B 3B	. 00230 . 00175	. 00133 . 00101	3 2	22 34
34-10 or . 750-10	UNC	1A 2A 3A	. 00440 . 00295 . 00220	. 00254 . 00170 . 00127	2 1 1	$\begin{array}{c}1\\21\\0\end{array}$	1B 2B 3B	. 00575 . 00385 . 00285	. 00332 . 00222 . 00165	2 1 1	38 46 18
34-12 or 750-12	UN	2A 3A	. 00275 . 00205	. 00159	1	31 8	2B 3B	. 00360 . 00270	. 00208 . 00156	1 1	59 29
34-16 or .750-16	UNF	1A 2A 3A	. 00375 . 00250 . 00190	. 00217 . 00144 . 00110	2 1 1	45 50 24	1B 2B 3B	. 00490 . 00325 . 00245	. 00283 . 00188 . 00141	3 2 1	35 23 48
34-20 or . 750-20	UNEF	2A 3A	. 00220 . 00165	. 00127 . 00095	2	1 31	2B 3B	. 00285 . 00215	. 00165	2	37 58
34-28 or . 750-28	UN	2A 3A	. 00190 . 00145	. 00110	2 1	26 52	2B 3B	. 00250 . 00185	. 00144	3 2	12 22
34-32 or . 750-32	UN	2A 3A	. 00180 . 00135	. 00104	2	38 59	2B 3B	. 00235	. 00136 . 00104	3 2	27 38
13/16-12 or . 8125-12	UN	2A 3A	. 00275	. 00159 . 00118	1	31 8	2B 3B	. 00360	. 00208 . 00156	1 1	59 29
13/16-16 or . 8125-16	UN	2A 3A	. 00245 . 00180	.00141	1 1	48 19	2B 3B	. 00315 . 00235	. 00182 . 00136	2	19 43
13/16-20 or . 8125-20	UNEF	2A 3A	. 00220 . 00165	. 00127 . 00095	2	1 31	2B 3B	. 00285 . 00215	. 00165 . 00124	2	37 58
13/16-28 or . 8125-28	UN	2A 3A	. 00190 . 00145	. 00110	2 1	26 52	2B 3B	. 00250 . 00185	.00144	3 2	12 22
13/16-32 or . 8125-32	UN	2A 3A	. 00180 . 00135	. 00104 . 00078	2	38 59	2B 3B	. 00235 . 00180	. 00136 . 00104	3 2	27 38
7/8-9 or . 875-9	UNC	1A 2A 3A	. 00475 . 00315 . 00235	. 00274 . 00182 . 00136	1 1 0	58 18 58	1B 2B 3B	. 00615 . 00410 . 00305	. 00355 . 00237 . 00176	2 1 1	32 41 15
7/s-12 or . 875-12	UN	2A 3A	. 00275 . 00205	.00159	1 1	31 8	2B 3B	. 00360 . 00270	. 00208 . 00156	1 1	59 29
7/8-14 or . 875-14	UNF	1A 2A 3A	. 00405 . 00270 . 00205	. 00234 . 00156 . 00118	2 1 1	36 44 19	1B 2B 3B	. 00530 . 00350 . 00265	. 00306 . 00202 . 00153	3 2 1	$\frac{24}{15}$
76-16 or . 875-16	UN	2A 3A	. 00245 . 00180	. 00141 . 00104	1 1	48 19	2B 3B	. 00315 . 00235	. 00182	2	19 43
7∕6−20 or . 875−20	UNEF	2A 3A	.00220 .00165	. 00127 . 00095	2	1 31	2B 3B	. 00285 . 00215	. 00165 . 00124	2	37 58
7⁄6-28 or . 875-28	UN	2A 3A	.00190	.00110	2 1	26 52	2B 3B	. 00250 . 00185	. 00144	3 2	12 22
7⁄8-32 or . 875-32	UN	2A 3A	.00180 .00135	.00104	2 1	38 59	2B 3B	. 00235 . 00180	. 00136 . 00104	3 2	27 38
15/16-12 or . 9375-12	UN	2A 3A	. 00285	.00165	1 1	34 9	2B 3B	. 00370	. 00214 . 00159	2	2 31
¹⁵ / ₆ -16 or . 9375-16	UN	2A 3A	. 00250 . 00185	.00144	1 1	50 21	2B 3B	. 00325 . 00245	.00188	2 1	23 48
15/16-20 or . 9375-20	UNEF	2A 3A	. 00225	.00130	2 1	4 33	2B 3B	. 00295	. 00170 . 00127	2 2	42 1

Table III.11.—Deviations in lead and half-angle equivalent to one-half of pitch diameter tolerances, Unified screw threads—Con.

				External					Internal		
Nominal size and threads per inch	Series des- ignation	Class	Half of pitch diameter tolerance	Equivalent deviation in lead	devia	valent tion in angle	Class	Half of pitch diameter tolerance	Equivalent deviation in lead	devia	valent tion in angle
1	2	3	4	5		6	7	8	9		10
¹⁵ / ₁₆ –28 or . 9375–28	UN	2A 3A	in. . 00200 . 00150	in. .00115 .00087	$\begin{array}{c} deg \\ 2 \\ 1 \end{array}$	min 34 55	2B 3B	in. . 00260 . 00195	in. . 00150 . 00113	$\begin{array}{c} deg \\ 3 \\ 2 \end{array}$	min 20 30
¹⁵ / ₁₆ -32 or . 9375-32	UN	2A 3A	. 00190 . 00140	. 00110	2 2	47 3	2B 3B	. 00245 . 00185	. 00141 . 00107	3 2	35 43
1-8 or 1.000-8	UNC	1A 2A 3A	. 00505 . 00340 . 00255	. 00292 . 00196 . 00147	1 1 0	51 15 56	1B 2B 3B	. 00660 . 00440 . 00330	. 00381 . 00254 . 00191	2 1 1	25 37 13
1-12 or 1.000-12	UNF	1A 2A 3A	. 00440 . 00295 . 00220	. 00254 . 00170 . 00127	2 1 1	25 37 13	1B 2B 3B	. 00570 . 00380 . 00285	. 00329 . 00219 . 00165	3 2 1	8 5 34
1-16 or 1. 000-16	UN	2A 3A	. 00250	. 00144	1 1	50 21	$\frac{2B}{3B}$. 00325	. 00188	2 1	23 48
1-20 or 1.000-20	UNEF	2A 3A	. 00225 . 00170	. 00130	2 1	4 33	2B 3B	. 00295	. 00170 . 00127	2 2	42 1
1-28 or 1.000-28	UN	2A 3A	. 00200	. 00115	2	34 55	2B 3B	. 00260	. 00150 . 00113	3 2	20 30
1-32 or 1.000-32	UN	2A 3A	. 00190	. 00110	2 2	47 3	2B 3B	. 00245	. 00141	3 2	35 43
1½6-8 or 1.0625-8	UN	2A 3A	. 00340 . 00255	. 00196	· 1 0	15 56	2B 3B	. 00445	. 00257 . 00193	1 1	38 14
1½6-12 or 1.0625-12	UN	2A 3A	. 00285 . 00210	. 00165	1 1	34 9	2B 3B	. 00370 . 00275	. 00214	2	2 31
1½6-16 or 1.0625-16	UN	2A 3A	. 00250 . 00185	. 00144	1 1	50 21	2B 3B	. 00325	. 00188	2 1	23 48
1½ 6–18 or 1.0625–18	UNEF	2A 3A	. 00235 . 00180	. 00136 . 00104	1 1	56 29	2B 3B	. 00310	. 00179	2	33 54
1½ 6-20 or 1.0625-20	UN	2A 3A	. 00225	. 00130 . 00098	2	4 33	2B 3B	. 00295 . 00220	. 00170	2 2	42
1½6-28 or 1.0625-28	UN	2A 3A	. 00200	. 00115	2	34 55	2B 3B	. 00260 . 00195	. 00150 . 00113	3 2	20 30
1½-7 or 1. 125-7	UNC	1A 2A 3A	. 00545 . 00360 . 00270	. 00315 . 00208 . 00156	1 1 0	45 9 52	1B 2B 3B	. 00705 . 00470 . 00355	. 00407 . 00271 . 00205	2 1 1	16 30 8
1½8-8 or 1. 125-8	UN	2A 3A	. 00345 . 00260	. 00199 . 00150	1 0	16 57	2B 3B	. 00450 . 00335	.00260	1	39 14
1½-12 or 1. 125-12	UNF	1A 2A 3A	. 00450 . 00300 . 00225	. 00260 . 00173 . 00130	2 1 1	28 39 14	1B 2B 3B	. 00585 . 00390 . 00295	. 00338 . 00225 . 00170	3 2 1	13 9 37
1½-16 or 1. 125-16	UN	2A 3A	. 00250	. 00144	1 1	50 21	2B 3B	. 00325	. 00188	2	23 48
1½-18 or 1. 125-18	UNEF	2A 3A	. 00235	. 00136	1 1	56 29	2B 3B	. 00310	. 00179	2 1	33 54
1½-20 or 1.125-20	UN	2A 3A	. 00225	. 00130	2	4 33	2B 3B	. 00295	. 00170 . 00127	2 2	42 1
1½-28 or 1. 125-28	UN	2A 3A	. 00200	. 00115	2 1	34 55	2B 3B	. 00260 . 00195	. 00150 . 00113	3 2	20 30
13/16-8 or 1. 1875-8	UN	2A 3A	. 00350	. 00202	1 0	17 57	2B 3B	. 00455	. 00263 . 00196	1 1	40 15
13/16-12 or 1. 1875-12	UN	2A 3A	. 00290 . 00215	. 00167	1 1	36 11	2B 3B	. 00375 . 00280	. 00217 . 00162	2	$\frac{4}{32}$
13/16-16 or 1. 1875-16	UN	2A 3A	. 00255 . 00190	. 00147	1 1	52 24	2B 3B	. 00330 . 00250	. 00191	2 1	25 50
13/16-18 or 1, 1875-18	UNEF	2A 3A	. 00245	. 00141	2 1	1 29	2B 3B	. 00315 . 00235	. 00182 . 00136	2	36 56
1 ³ ⁄ ₁₆ -20 or 1. 1875-20	UN	2A 3A	. 00235	. 00136	2 1	9 36	2B 3B	. 00305 . 00225	. 00176	2 2	48 4
1 ³ / ₁₆ -28 or 1. 1875-28	UN	2A 3A	. 00205 . 00 1 55	. 00118	2 1	38 59	2B 3B	. 00265 . 00200	. 00153	3 2	24 34
11/4-7 or 1. 250-7	UNC	1A 2A 3A	. 00555 . 00370 . 00275	. 00320 . 00214 . 00159	1 1 0	47 11 53	1B 2B 3B	. 00720 . 00480 . 00360	. 00416 . 00277 . 00208	2 1 1	19 32 9
1½-8 or 1, 250-8	UN	2A 3A	. 00350 . 00265	. 00202	1 0	17 58	2B 3B	. 00460	. 00266	1 1	41 16

Table III.11.—Deviations in lead and half-angle equivalent to one-half of pitch diameter tolerances, Unified screw threads—Con.

				External					Internal		
Nominal size and threads per inch	Series des- is nation	Class	Half of pitch diameter tolerance	Equivalent deviation in lead	devia	valent tion in angle	Class	Half of pitch diameter tolerance	Equivalent deviation in lead	devia	valent tion in angle
1	2	3	4	5		6	7	8	9		10
1 ¹ 4-12 or 1. 250-12	UNF	1A 2A 3A	in. . 00460 . 00310 . 00230	$in, \\ .00266 \\ .00179 \\ .00133$	$\begin{array}{c} deg \\ 2 \\ 1 \\ 1 \end{array}$	min 32 42 16	1B 2B 3B	in. .00600 .00400 .00300	in, . 00346 . 00231 . 00173	$\begin{array}{c} deg \\ 3 \\ 2 \\ 1 \end{array}$	mi 18 12 39
1½-16 or 1. 250-16	UN	2A 3A	. 00255 . 00190	. 00117	1	52 24	2B 3B	. 00330 . 00250	. 00191	2 1	25 50
1¼-18 or 1. 250-18	UNEF	2A 3A	. 00245 . 00180	. 00141	2	1 29	2B 3B	. 00315 . 00235	. 00182 . 00136	2 1	36 56
14-20 or 1. 250-20	UN	2A 3A	. 00235 : 00175	. 00136	2 1	9 36	2B 3B	. 00305 . 00225	. 00176	2 2	48
1½-28 or 1, 250-28	UN	2A 3A	. 00205 . 00155	. 00118	2	38 59	2B 3B	. 00265 . 00200	. 00153 . 00115	3 2	24
15/16-8 or 1. 3125-8	UN	2A 3A	. 00355 . 00265	. 00205 . 00153	1 0	18 58	2B 3B	. 00460 . 00345	. 00266 . 00199	1	4:
15/16-12 or 1. 3125-12	UN	2.A 3.A	. 00290 . 00215	. 00167 . 00124	1	36 11	2B 3B	. 00375 . 00280	. 00217 . 00162	2 1	3
15/16-16 or 1. 3125-16	UN	2A 3A	. 00255 . 00190	. 00147 . 00110	1 1	52 24	2B 3B	. 00330 . 00250	. 00191	2	2.
1 ⁵ 1 ₆ -18 or 1. 3125-18	UNEF	2A 3A	. 00245 . 00180	. 00141	2	1 29	2B 3B	. 00315 . 00235	. 00182 . 00136	2	36
15/16-20 or 1, 3125-20	UN	2A 3A	. 00235 . 00175	. 00136	2	9 36	2B 3B	. 00305 . 00225	. 00176 . 00130	2 2	4
1 ⁵ 16-28 or 1. 3125-28	UN	2A 3A	. 00205 . 00155	. 00118	2	38 59	2B 3B	. 00265	. 00153 . 00115	3 2	2.3
13%-6 or 1. 375-6	UNC	1A 2A 3A	. 00600 . 00400 . 00300	. 00346 . 00231 . 00173	1 1 0	39 6 50	1B 2B 3B	. 00775 . 00520 . 00390	. 00447 . 00300 . 00225	2 1 1	2
13/4-8 or 1. 375-8	UN	2A 3A	. 00360 . 00270	. 00208 . 00156	1 0	19 59	2B 3B	. 00465 . 00350	. 00268	1	4:
1 ³ / ₈ -12 or 1. 375-12	UNF	1A 2A 3A	. 00470 . 00315 . 00235	. 00271 . 00182 . 00136	2 1 1	35 44 18	1B 2B 3B	. 00615 . 00410 . 00305	. 00355 . 00237 . 00176	3 2 1	2: 1: 4:
13/s-16 or 1, 375-16	UN	2A 3A	. 00255 . 00190	. 00147 . 00110	1 1	52 24	2B 3B	. 00330 . 00250	. 00191 . 00144	2	2· 5
134-18 or 1. 375-18	UNEF	2A 3A	. 00245 . 00180	. 00141 . 00104	2	1 29	2B 3B	. 00315 . 00235	. 00182 . 00136	2	30
13/8-20 or 1. 375-20	UN	2A 3A	. 00235 . 00175	. 00136 . 00101	2	9 36	2B 3B	. 00305 . 00225	. 00176 . 00130	2 2	4
1 ³ %-28 or 1. 375-28	UN	2A 3A	. 00205 . 00155	. 00118	2 1	38 59	2B 3B	. 00265 . 00200	. 00153 . 00115	3 2	24
17/16-6 or 1. 4375-6	UN	2A 3A	. 00400	. 00231 . 00173	1 0	6 50	2B 3B	. 00520 . 00390	. 00300	1	2
1½6-8 or 1. 4375-8	UN	2A 3A	. 00360 . 00270	. 00208 . 00156	1 0	19 59	2B 3B	. 00470 . 00355	. 00271 . 00205	1	4
1½6-12 or 1. 4375-12	UN	2A 3A	. 00295 . 00220	. 00170 . 00127	1 1	37 13	2B 3B	. 00380	. 00219 . 00165	2 1	3
17/16-16 or 1. 4375-16	UN	2A 3A	. 00260 . 00195	. 00150 . 00113	1 1	54 26	2B 3B	. 00340 . 00255	. 00196 . 00147	2	3
17/16-18 or 1. 4375-18	UNEF	2A 3A	. 00250 . 00185	. 00144 . 00107	2 1	4 32	2B 3B	. 00325 . 00240	. 00188	2	4 5
17/16-20 or 1. 4375-20	UN	2A 3A	. 00240 . 00180	. 00139	2	12 39	2B 3B	. 00310 . 00230	. 00179 . 00133	2 2	5
17/16-28 or 1. 4375-28	UN	2A 3A	. 00210 . 00155	. 00121 . 00089	2 1	42 59	2B 3B	. 00275 . 00205	. 00159 . 00118	3 2	3
1½-6 or 1.500-6	UNC	1A 2A 3A	. 00605 . 00405 . 00305	. 00349 . 00234 . 00176	1 1 0	40 7 50	1B 2B 3B	. 00790 . 00525 . 00395	. 00456 . 00303 . 00228	2 1 1	10
1½-8 or 1. 500-8	UN	2A 3A	. 00365 . 00275	. 00211 . 00159	1 1	20	2B 3B	. 00475 . 00355	. 00274 . 00205	1 1	4-
1½-12 or 1.500-12	UNF	1A 2A 3A	. 00480 . 00320 . 00240	. 00277 . 00185 . 00139	2 1 1	38 46 19	1B 2B 3B	. 00625 . 00415 . 00315	. 00361 . 00240 . 00182	3 2 1	26 17 44
1½-16 or 1.500-16	UN	2A 3A	. 00260 . 00195	. 00150 . 00113	1 1	54 26	2B 3B	. 00340 . 00255	. 00196	2 1	30 52

Table III.11.—Deviations in lead and half-angle equivalent to one-half of pitch diameter tolerances, Unified screw threads—Con.

NT - to 1 de 1	Or to dee			External					Internal		
Nominal size and threads per inch	Series des- ignation	Class	Half of pitch diameter tolerance	Equivalent deviation in lead	deviat	valent tion in angle	Class	Half of pitch diameter tolerance	Equivalent deviation in lead	devia	valent tion in angle
1	2	3	4	5		6	7	8	9	1	10
1½-18 or 1. 500-18	UNEF	2A 3A	in. . 00250 . 00185	in. . 00144 . 00107	$\begin{smallmatrix} deg \\ 2 \\ 1 \end{smallmatrix}$	$min\\4\\32$	2B 3B	$in. \\ .00325 \\ .00240$	in. .00188 .00139	$^{deg}_{\overset{2}{1}}$	min 41 59
1½-20 or 1.500-20	UN	2A 3A	. 00240 . 00180	. 00139 . 00104	2 1	$\frac{12}{39}$	2B 3B	. 00310 . 00230	. 00179 . 00133	2 2	50 6
112-28 or 1.500-28	UN	2A 3 A	. 00210 . 00155	. 00121 . 00089	2	42 59	2B 3B	. 00275 . 00205	. 90159 . 90118	3 2	31 38
1946-6 or 1. 5625-6	UN	2A 3A	. 00410	. 00237 . 00176	1 0	8 50	2B 3B	. 00530 . 00400	. 00306	1 1	27 6
1946-8 or 1.5625-8	UN	2A 3A	. 00370 . 00275	. 00214 . 00159	1 1	21 0	2B 3B	. 00480 . 00360	. 00277 . 00208	1	46 19
1916-12 or 1. 5625-12	UN	2A 3 A	. 00295 . 00220	. 00170 . 00127	1 1	37 13	2B 3B	. 00380 . 00285	.00219	2	- 5 34
1916-16 or 1. 5625-16	UN	2 A 3 A	. 00260	. 00150	1 1	54 26	2B 3B	. 00340	. 00196 . 00147	2 1	30 52
1%16-18 or 1.5625-18	UNEF	2A 3A	. 00250 . 00185	.00144	2 1	4 32	2B 3B	. 00325 . 00240	.00188	2	41 59
1%16-20 or 1.5625-20	UN	2A 3A	. 00240	. 00139	2 1	12 39	2B 3B	. 00310 . 00230	.00179	2 2	50
158-6 or 1. 625-6	UN	2A 3A	. 00410	. 00237 . 00179	1 0	8 51	2B 3B	. 00535 . 00400	. 00309	1 1	28
158-8 or 1. 625-8	UN	2A 3A	. 00370 . 00280	. 00214	1 1	21 2	2B 3B	. 00485 . 00360	. 00280	1 1	47 19
156-12 or 1. 625-12	UN	2A 3A	. 00295	. 00170	1 1	37 13	2B 3B	. 00380	. 00219	2	34
158-16 or 1.625-16	UN	2A 3A	. 00260	.00150	1 1	54 26	2B 3B	. 00340	.00196	2 1	30 52
158-18 or 1. 625-18	UNEF	2A 3A	. 00250	. 00144	2	4 32	2B 3B	. 00325	. 00188	2	41 59
15%-20 or 1. 625-20	UN	2A 3A	. 00240	. 00139	2 1	12 39	2B 3B	.00310	. 00179	2 2	5(
1 ¹ ½ ₆ -6 or 1. 6875-6	UN	2A 3A	. 00415	. 00240	1 0	8 51	2B 3B	. 00540	. 00312	1 1	29
1 ¹¹ / ₁₆ -8 or 1. 6875-8	UN	2A 3A	. 00375	.00217	1 1	22	2B 3B	. 00485	. 00280	1	47
1 ¹ ½ ₁₆ -12 or 1.6875-12	UN	2A 3A	. 00300	. 00173	1 1	39 14	2B 3B	. 00390	. 00225	2	30
1 ¹ ½ ₆ -16 or 1. 6875-16	UN	2A 3A	. 00265	. 00153	1 1	57 28	2B 3B	. 00345	. 00199	2	32
1 ¹ ½ ₆ -18 or 1, 6875-18	UNEF	2A 3A	. 00255	. 00147	2	6 34	2B 3B	. 00330	. 00191	2 2	43
1 ¹ ½ ₁₆ -20 or 1. 6875-20	UN	2A 3A	. 00240	.00139	2	12 39	2B 3B	. 00315	. 00182 . 00136	2 2	5
134-5 or 1.750-5	UNC	1A 2A 3A	. 00670 . 00445 . 00335	. 00387 . 00257 . 00193	1 1 0	32 1 46	1B 2B 3B	. 00870 . 00580 . 00435	. 00502 . 00335 . 00251	2 1 1	20
134-6 or 1.750-6	UN	2A 3A	. 00415	. 00240 . 00182	1 0	8 52	2B 3B	.00540	. 00312 . 00234	1 1	2
134-8 or 1.750-8	UN	2A 3A	. 00375	. 00217 . 00165	1 1	22 3	2B 3B	. 00490 . 00370	. 00283	1 1	4:
134-12 or 1.750-12	UN	2A 3A	. 00300 . 00225	. 00173 . 00130	1 1	39 14	2B 3B	.00390	. 00225 . 00167	2 1	36
1¾4-16 or 1.750-16	UN	2A 3A	. 00265	. 00153 . 00115	1 1	57 28	2B 3B	. 00345	. 00199	2	35 54
1¾4-20 or 1.750-20	UN	2A 3A	. 00240 . 00180	. 00139 . 00104	2 1	12 39	2B 3B	. 00315	. 00182 . 00136	2 2	55
1 ¹³ / ₁₆ -6 or 1. 8125-6	UN	2A 3A	. 00420 . 00315	. 00242 . 00182	1 0	9 52	2B 3B	. 00545	. 00315	1 1	30
1 ¹³ / ₁₆ -8 or 1, 8125-8	UN	2A 3A	.00380	. 00219	1 1	24 3	2B 3B	. 00495	. 00286	1 1	49
1 ¹³ 16-12 or 1, 8125-12	UN	2A 3A	. 00300	. 00173	1 1	39 14	2B 3B	. 00390	. 00225	2	36

Table III.11.—Deviations in lead and half-angle equivalent to one-half of pitch diameter tolerances, Unified screw threads—Con.

				External					Internal		
Nominal size and threads per inch	Series des- ignation	Class	Half of pitch diameter tolerance	Equivalent deviation in lead	devia	valent tion in angle	Class	Half of pitch diameter tolerance	Equivalent deviation in lead	devia	valent tion it angle
1	2	3	4	5		6	7	8	9		10
1 ¹³ ⁄ ₁₆ –16 or 1. 8125–16	UN	2A 3A	in. . 00265 . 00200	in. . 00153 . 00115	$_{1}^{deg}$	min 57 28	2B 3B	in. . 00345 . 00260	in. .00199 .00150	deg 2 1	mi: 32 54
1 ¹³ / ₁₆ -20 or 1. 8125-20	UN	2A 3A	. 00240 . 00180	. 00139 . 00104	2	12 39	2B 3B	. 00 31 5 . 002 3 5	.00182	2 2	53
178-6 or 1.875-6	UN	2A 3A	.00420	.00242	1 0	9 52	2B 3B	. 00550 . 00410	.00318	1 1	3
13%-8 or 1,875-8	UN	2A 3A	. 00385 . 00285	.00222	1 1	25 3	2B 3B	.00500	. 00289	1	50
178-12 or 1.875-12	UN	2A 3A	. 00300 . 00225	. 00173 . 00130	1 1	39 14	2B 3B	.00390	. 00225	2	3
176-16 or 1.875-16	UN	2A 3A	. 00265	. 00153	1 1	57 28	2B 3B	. 00345	. 00199	2	3 5
178-20 or 1.875-20	UN	2 A 3 A	. 00240	. 00139	2	12 39	2B 3B	. 00315	. 00182	2 2	5
1 ¹⁵ / ₁₆ -6 or 1. 9375-6	UN	2A 3A	. 00425	. 00245	1 0	10 53	2B 3B	. 00555	. 00320	1 1	3
1 ¹⁵ / ₁₆ -8 or 1, 9375-8	UN	2A 3A	. 00385	. 00222	1	25 4	2B 3B	. 00500	. 00289	1	5 2
1 ¹ 5/ ₁₆ -12 or 1. 9375-12	UN	2A 3A	. 00305	. 00176	1	41 14	2B 3B	. 00395 . 00295	. 00228	2	1
1 ¹⁵ / ₁₆ -16 or 1. 9375-16	UN	2A 3A	. 00270	. 00156 . 00115	1	59 28	2B 3B	.00350	. 00202	2	3 5
1 ¹⁵ / ₁₆ -20 or 1, 9375-20	UN	2A 3A	. 00245 . 00185	.00141	2	15 42	2B 3B	.00320	. 00185	2 2	5 1
2-4½ or 2.000-4.5	UNC	1 A 2 A 3 A	. 00715 . 00475 . 00355	. 00413 . 00274 . 00205	1 0 0	28 59 44	1B 2B 3B	. 00930 . 00620 . 00465	. 00537 . 00358 . 00268	1 1 0	5 1 5
2-6 or 2.000-6	UN	2A 3A	. 00430	. 00248	1 0	11 53	2B 3B	. 00555	. 00320	1 1	3
2–8 or 2,000–8	UN	2A 3A	. 00390	. 00225	1	26 4	2B 3B	. 00505	. 00292	1 1	5 2
2-12 or 2.000-12	UN	2A 3A	. 00305	. 00176	1 1	41 14	2B 3B	. 00395	. 00228	2	1 3
2-16 or 2. 000-16	UN	2A 3A	. 00270	. 00156	1	59 28	2B 3B	. 00350	. 00202	2 1	3
2-20 or 2. 000-20	UN	2A 3A	. 00245	. 00141	2 1	15 42	2B 3B	. 00320	. 00185	2 2	5
2½8–6 or 2.125–6	UN	2A 3A	. 00435	. 00251	1 0	12 54	2B 3B	. 00565	. 00326	1 1	3
2½-8 or 2.125-8	UN	2A 3A	. 00395	. 00228	1 1	27 5	2B 3B	, 00510 . 00385	.00294	1	5 2
2½-12 or 2, 125-12	UN	2A 3A	. 00305	. 00176	1	41 14	2B 3B	. 00395	. 00228	2	1 3
2½-16 or 2.125-16	UN	2A 3A	. 00270 . 00200	. 00156	1 1	59 28	2B 3B	. 00350	. 00202	2 1	3 5
2½-20 or 2.125-20	UN	2A 3A	. 00245	. 00141	2 1	15 42	2B 3B	. 00320	. 00185	2 2	5 1
2¼-4½ or 2. 250-4. 5	UNC	1A 2A 3A	. 00730 . 00485 . 00365	. 00421 . 00280 . 00211	1 1 0	30 0 45	1B 2B 3B	. 00950 . 00630 . 00475	. 00548 . 00364 . 00274	1 1 0	5 1 5
2¼-6 or 2, 250-6	UN	2A 3A	. 00440	. 00254	1 0	13 54	2B 3B	. 00570	. 00329	1 1	3
2½-8 or 2. 250-8	UN	2A 3A	. 00400	. 00231	1 1	28 6	2B 3B	. 00520	. 00300	1 1	5 2
2½-12 or 2. 250-12	UN	2A 3A	. 00305	.00176	1 1	41 14	2B 3B	. 00395	. 00228	2 1	1 3
2½-16 or 2. 250-16	UN	2A 3A	. 00270 . 00200	. 00156	1 1	59 28	2B 3B	. 00350	. 00202	2 1	3 5
2½-20 or 2. 250-20	UN	2A 3A	. 00245	.00141	2 1	15 42	2B 3B	. 00320	. 00185	2 2	50

 ${\bf T_{ABLE\ III.11.}-} Deviations\ in\ lead\ and\ half-angle\ equivalent\ to\ one-half\ of\ pitch\ diameter\ tolerances,\ Unified\ screw\ threads-Con.$

				External					Internal		
Nominal size and threads per inch	Series des- ignation	Class	Half of pitch diameter tolerance	Equivalent deviation in lead	devia	valent tion in angle	Class	Half of pitch diameter tolerance	Equivalent deviation in lead	devia	valent tion in angle
1	2	3	4	5	(3	7	8	9	1	0
236-6 or 2. 375-6	UN	2A 3A	in. . 00445 . 00330	in. . 00257 . 00191	$egin{pmatrix} deg \ 1 \ 0 \end{matrix}$	min 13 54	2B 3B	in. . 00575 . 00430	in. . 00332 . 00248	deg 1 1	min 35 11
23/8-8 or 2. 375-8	UN	2A 3A	. 00405 . 00300	. 00234	1	29 6	2B 3B	. 00525 . 00395	. 00303 . 00228	1 1	55 27
2 ³ / ₈ -12 or 2. 375-12	UN	2A 3A	. 00310	. 00179 . 00133	1 1	42 16	2B 3B	. 00405 . 00300	. 00234 . 00173	2	14 39
2 ³ \(\left\) -16 or 2. 375-16	UN	2A 3A	. 00275 . 00205	. 00159 . 00118	2 1	1 30	2B 3B	. 00360 . 00270	. 00208 . 00156	2	38 59
23%-20 or 2. 375-20	UN	2A 3A	. 00255 . 00190	. 00147	2 1	20 44	2B 3B	. 00330 . 00250	. 00191	3 2	17
2½-4 or 2. 500-4	UNC	1A 2A 3A	. 00775 . 00520 . 00390	. 00447 . 00300 . 00225	1 0 0	25 57 43	1B 2B 3B	. 01010 . 00675 . 00505	. 00583 . 00390 . 00292	1 1 0	51 14 56
2½-6 or 2. 500-6	UN	2A 3A	. 00450	. 00260 . 00193	1 0	14 55	2B 3B	. 00580 . 00435	. 90335 . 00251	1 1	36 12
2½-8 or 2. 500-8	UN	2A 3A	. 00410	. 00237 . 00176	1 1	30 7	2B 3B	. 00530 . 00400	. 00306	1 1	5′ 28
2½-12 or 2, 500-12	UN	2A 3A	. 00310	. 00179	1 1	42 16	2B 3B	. 00405	. 00234	2 1	1-3
2½-16 or 2. 500-16	UN	2A 3A	. 00275	. 00159	2 1	1 30	2B 3B	.00360	. 00208	2 1	3:
2½-20 or 2. 500-20	UN	2A 3A	. 00255	. 00147	2 1	20 44	2B 3B	. 00330	. 00191	3 2	1
25%-6 or 2, 625-6	UN	2A 3A	. 00450 . 00340	. 00260	1 0	14 56	2B 3B	00590	. 00341	1 1	3
25%-8 or 2. 625-8	UN	2A 3A	. 00410	. 00237	1 1	30	2B 3B	. 00535	. 00309	1 1	5 2
25%-12 er 2. 625-12	UN UN	2A 3A	. 00310	. 00179	1 1	42 16	·2B 3B	. 00405	. 00234	2	1 3
25 s-16 or 2. 625-16	UN	2A 3A	. 00275	. 00159	2 1	1 30	2B 3B	. 00360	. 00208	2 1	3 5
25/s-20 or 2. 625-20	UN	2A 3A	. 00255	. 00147	2 1	20 44	2B 3B	. 00330 . 00250	. 00191	3 2	1
234-4 or 2.750-4	UNC	1A 2A 3A	. 00790 . 00525 . 00395	. 00456 . 00303 . 00228	1 0 0	27 58 43	1B 2B 3B	. 01030 . 00685 . 00515	. 00595 . 00395 . 00297	1 1 0	5 1 5
2¾-6 or 2. 750-6	UN	2A 3A	. 00455 . 00340	. 00263 . 00196	1 0	15 56	2B 3B	. 00595 . 00445	. 00344	1 1	3
2¾-8 or 2. 750-8	UN	2A 3A	. 00415 . 00315	. 00240	1 1	31 9	2B 3B	. 00540	. 00312	1 1	
2¾-12 or 2. 750-12	UN	2A 3A	. 00310 . 00230	. 00179	1 1	42 16	2B 3B	. 00405	. 00234	2 1	1 3
2¾-16 or 2. 750-16	UN	$2\Lambda \ 3A$. 00275 . 00205	. 00159	2 1	1 30	2B 3B	. 00360	. 00208	2	3 5
2¾4-20 or 2. 750-20	UN	2A 3A	. 00255 . 00190	.00147	2 1	20 44	2B 3B	. 00330	. 00191	3 2	1
276-6 or 2. 875-6	UN	2A 3A	. 00460	. 00266	1 0	16 57	2B 3B	. 00600	. 00346	1 1	3
27/s-8 or 2, 875-8	UN	2A 3A	. 00420 . 00315	. 00242	1 1 1	32 9	2B 3B	. 00550	. 00318	2 1	3
27/6-12 or 2. 875-12	UN	2A 3A	. 00315 . 00235	. 00182 . 00136	1 1	44 18	2B 3B	. 00410 . 00310	. 00237	2 1	1.4
27/s-16 or 2. 875-16	UN	2A 3A	. 00280 . 00210	. 00162	2 1	3 32	2B 3B	. 00365	. 00211	2 2	4
27/s-20 or 2. 875-20	UN	2A 3A	. 00260 . 00195	. 00150	2 1	23 47	2B 3B	. 00340	. 00196	3 2	20
3-4 or 3.000-4	UNC	1A 2A 3A	. 00805 . 00535 . 00400	. 00465 . 00309 . 00231	1 0 0	29 59 44	1B 2B 3B	. 01045 . 00695 . 00520	. 00603 . 00401 . 00300	1 1 0	5: 10 5'
3–6 or 3. 000–6	UN	2A 3A	. 00465 . 00350	. 00268	1 0	17 58	2B 3B	. 00605 . 00455	.00349	1 1	40

Table III.11.—Deviations in lead and half-angle equivalent to one-half of pitch diameter tolerances, Unified screw threads—Con.

				External					Internal		
Nominal size and threads per inch	Series des- ignation	Class	Half of pitch diameter tolerance	Equivalent deviation in lead	devia	valent tion in angle	Class	Half of pitch diameter tolerance	Equivalent deviation in lead	devia	valent tion in angle
1	2	3	4	5		6	7	8	9	1	.0
3-8 or 3.000-8	UN	2A 3A	$in. \\ .00425 \\ .00320$	in. .00245 .00185	$_{1}^{deg}$	$\begin{array}{c} min\\ 33\\ 10 \end{array}$	2B 3B	$in. \\ .00555 \\ .00415$	in. . 00320 . 00240	$deg \ 2 \ 1$	min 2 31
3–12 or 3. 000–12	UN	2A 3A	. 00315 . 00235	. 00182 . 00136	1	44 18	2B 3B	.00410	. 00237 . 00179	2	15 42
3-16 or 3. 000-16	UN	2A 3A	. 00280 . 00210	. 00162 . 00121	2	3 32	2B 3B	. 00365 . 00275	. 00211 . 00159	2 2	40
3–20 or 3. 000–20	UN	2A 3A	. 00260 . 00195	. 00150 . 00113	2	23 47	2B 3B	. 00340 . 00255	. 00196 . 00147	3 2	7 20
3½-6 or 3.125-6	UN	2A 3A	. 00470 . 00350	.00271	1 0	18 58	2B 3B	. 00610 . 00460	. 00352 . 00266	1	41 16
3½-8 or 3. 125-8	UN	2A 3A	. 00430 . 00320	. 00248	1	35 10	2B 3B	. 00560 . 00420	. 00323 . 00242	2	3 32
3½-12 or 3. 125-12	UN	2A 3A	. 00315 . 00235	. 00182	1 1	44 18	2B 3B	. 00410 . 00310	. 00237 . 00179	2	15 42
3½-16 or 3. 125-16	UN	2A 3A	. 00280 . 00210	. 00162 . 00121	2 1	3 32	2B 3B	. 00365 . 00275	. 00211 . 00159	2 2	40 1
3½-4 or 3. 250-4	UNC	1 A 2 A 3 A	. 00815 . 00545 . 00410	. 00471 . 00315 . 00237	1 1 0	30 0 45	1B 2B 3B	. 01060 . 00705 . 00530	. 00612 . 00407 . 00306	1 1 0	57 18 58
3½-6 or 3. 250-6	UN	2A 3A	. 00475 . 00355	. 00274 . 00205	1 0	18 59	2B 3B	. 00615 . 00460	. 00355 . 00266	1	41 16
3½-8 or 3. 250-8	UN	2A 3A	. 00435 . 00325	. 00251 . 00188	1 1	36 11	2B 3B	. 00565 . 00425	. 00326 . 00245	2	4 33
3½-12 or 3. 250-12	UN	2A 3A	. 00315 . 00235	. 00182 . 00136	1 1	44 18	2B 3B	. 00410 . 00310	. 00237 . 00179	2 1	15 42
3½-16 or 3. 250-16	UN	2A 3A	. 00280	.00162	2 1	3 32	2B 3B	. 00365 . 00275	. 00211	2 2	40
33/8-6 or 3. 375-6	UN	2A 3A	. 00475	. 00274 . 00208	1 0	18 59	2B 3B	. 00620	. 00358	1 1	42 17
33/8-8 or 3. 375-8	UN	2A 3A	. 00440	.00254	1 1	37 13	2B 3B	. 00570 . 00425	. 00329	2 1	5 33
33/s-12 or 3. 375-12	UN	2A 3A	. 00320 . 00242	.00185	1	46 19	2B 3B	. 00420 . 00315	.00242	2 1	19 44
33%-16 or 3.375-16	UN	2A 3A	. 00290	. 00167 . 00124	2 1	8 35	2B 3B	. 00375 . 00280	. 00217 . 00162	2 2	45 3
3½-4 or 3. 500-4	UNC	1A 2A 3A	. 00830 . 00550 . 00415	. 00479 . 00318 . 00240	1 1 0	31 0 46	1B 2B 3B	. 01075 . 00715 . 00540	. 00621 . 00413 . 00312	1 1 0	58 19 59
3½-6 or 3.500-6	UN	2A 3A	. 00480	. 00277	1 0	19 59	2B 3B	. 00625 . 00470	. 00361 . 00271	1 1	43 18
3½-8 or 3. 500-8	UN	2A 3A	. 00440	. 00254 . 00191	1	37 13	2B 3B	. 00575 . 00430	. 00332 . 00248	2	6 35
3½-12 or 3. 500-12	UN	2A 3A	. 00320 . 00240	. 00185 . 00139	1	46 19	2B 3B	. 00420 . 00315	. 00242 . 00182	2 1	19 44
3½-16 or 3. 500-16	UN	2A 3A	. 00290 . 00215	. 00167 . 00124	2	8 35	2B 3B	. 00375	. 00217 . 00162	2 2	45 3
35%-6 or 3. 625-6	UN	2A 3A	. 00485	. 00280 . 00211	1 1	20 0	2B 3B	. 00630 . 00475	. 00364 . 00274	1 1	44 18
35%-8 or 3. 625-8	UN	2A 3A	. 00445	. 00257 . 00193	1 1	38 14	2B 3B	. 00580 . 00435	. 00335 . 00251	2 1	8 36
35%-12 or 3. 625-12	UN	2A 3A	. 00320 . 00240	. 00185	1 1	46 19	2B 3B	. 00420	. 00242	2 1	19 44
35/s-16 or 3. 625-16	UN	2A 3A	. 00290 . 00215	. 00167 . 00124	2	8 35	2B 3B	. 00375 . 00280	. 00217	2 2	45 3
3¾-4 or 3. 750-4	UNC	1A 2A 3A	.00840 .00560 .00420	. 00485 . 00323 . 00242	1 1 0	32 2 46	1B 2B 3B	. 01090 . 00725 . 00545	. 00629 . 00419 . 00315	2 1 1	$\begin{array}{c} 0 \\ 20 \\ 0 \end{array}$
3¾-6 or 3.750-6	UN	2A 3A	. 00490 . 00365	. 00283	1 1	21 0	2B 3B	. 00635 . 00475	. 00367	1 1	45 18
3¾-8 or 3. 750-8	UN	2A 3A	. 00450	. 00260	1 1	39 14	2B 3B	. 00585	. 00338	2 1	9 37

Table III.11.—Deviations in lead and half-angle equivalent to one-half of pitch diameter tolerances, Unified screw threads—Con.

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	Garde 3			External					Internal		
Nominal size and threads per inch	Series des- ignation	Class	Half of pitch diameter tolerance	Equivalent deviation in lead	devia	valent tion in angle	Class	Half of pitch diameter tolerance	Equivalent deviation in lead	devia	valent tion in angle
1	2	3	4	5		6	7	8	9	1	10
3¾4-12 or 3. 750-12	UN	2A 3A	$in. \\ .00320 \\ .00240$	in. .00185 .00139	$_{1}^{deg}$	mi n 46 19	2B 3B	in. . 00420 . 00315	in. .00242 .00182	$\begin{smallmatrix} deg \\ 2 \\ 1 \end{smallmatrix}$	min 19 44
3¾-16 or 3. 750-16	UN	2A 3A	. 00290 . 00215	. 00167 . 00124	2 1	8 35	2B 3B	. 00375 . 00280	. 00217 . 00162	2 2	45 3
3%-6 or 3. 875-6	UN	2A 3A	. 00495 . 00370	. 00286 . 00214	1 1	22 1	2B 3B	. 00640 . 00480	. 00369 . 00277	1 1	46 19
378–8 or 3. 875–8	UN	2A 3A	. 00455 . 00340	. 00263 . 00196	1 1	40 15	2B 3B	. 00590 . 00440	. 00341 . 00254	2	10 37
37.5-12 or 3. 875-12	UN	2A 3A	. 00325 . 00245	. 90188 . 00141	1	47 21	2B 3B	. 00425 . 00320	. 00245 . 00185	2	20 46
37%-16 or 3. 875-16	UN	2A 3A	. 00295 . 00220	. 00170 . 00127	2	10 37	2B 3B	. 00380 . 00285	. 00219 . 00165	2 2	47 5
4-4 or 4.000-4	UNC	1A 2A 3A	. 00850 . 00565 . 00425	. 00491 . 00326 . 00245	1 1 0	33 2 47	1B 2B 3B	. 01105 . 00735 . 00555	. 00638 . 00424 . 00320	2 1 1	2 21 1
4-6 or 4. 000-6	UN	2A 3A	. 00495 . 00370	. 00286 . 00214	1 1	22 1	2B 3B	. 00645 . 00485	. 00372 . 00280	1 1	46 20
4-8 or 4.000-8	UN	2A 3A	. 00455 . 00340	. 00263 . 00196	1	40 15	2B 3B	. 00595 . 00445	. 00344 . 00257	2 1	11 38
4-12 or 4. 000-12	UN	2A 3A	. 00325 . 00245	. 00188	1 1	47 21	2B 3B	. 00425 . 00320	. 00245 . 00185	2	20 46
4-16 or 4. 000-16	UN	2A 3A	. 00295	. 00170 . 00127	2 1	10 37	2B 3B	. 00380 . 00285	. 00219	2 2	47 5
4½-6 or 4. 125-6	UN	2A 3A	. 00500 . 00 37 5	. 00289	1 1	22 2	2B 3B	. 00650 . 00485	. 00375 . 00280	1 1	47 20
4½5-12 or 4. 125-12	UN	2A 3A	. 60325 . 00245	. 00188	1 1	47 21	2B 3B	. 00425 . 00320	. 00245 . 00185	2 1	20 46
4½-16 or 4. 125-16	UN	2A 3A	. 00295 . 00220	. 00170 . 00127	2 1	10 37	2B 3B	. 00380 . 00285	. 00219	2 2	47 5
4½-4 or 4. 250-4	UN	2A 3A	. 00575 . 00430	. 00332 . 00248	1 0	3 47	2B 3B	. 00745	. 00430	1 1	22 2
4½-6 or 4. 250-6	UN	2A 3A	. 00505 . 00375	. 00292	1 1	23	2B 3B	. 00655	. 00378	1 1	48 21
4½-12 or 4. 250-12	UN	2A 3A	. 00325 . 00245	. 00188	1 1	47 21	2B 3B	. 00425	. 00245	2 1	20 46
454-16 or 4. 250-16	UN	2A 3A	. 00295	. 00170	2	10 37	2B 3B	. 00380 . 00285	. 00219	2 2	47 5
4 ³ 8-6 or 4. 375-6	UN	2A 3A	. 00505 . 00380	. 00292	1 1	23	2B 3B	. 00660	. 00381	1	49 22
4 ³ / ₈ -12 or 4. 375-12	UN	2A 3A	.00325	. 00188	1 1	47 21	2B 3B	. 00425	. 00245	2 1	20 46
4 ³ 6-16 or 4. 375-16	UN	2A 3A	. 00295 . 00220	. 00170 . 00127	2 1	10 37	2B 3B	. 00380 . 00285	. 00219 . 00165	2 2	47 5
4½-4 or 4. 500-4	UN	2A 3A	. 00580	. 00335	1 0	4 48	2B 3B	. 00755	. 00436	1 1	23
4½-6 or 4. 500-6	UN	2A 3A	. 00510 . 00385	. 00294	1 1	24 4	2B 3B	. 00665	. 00384	1 1	50 22
4½-12 or 4. 500-12	UN	2A 3A	. 00325 . 00245	. 00188	1 1	47 21	2B 3B	. 00425	. 00245	2 1	20 46
4½-16 or 4. 500-16	UN	2A 3A	. 00295	. 00170	2 1	10 37	2B 3B	. 00380	. 00219	2 2	47 5
45%-6 or 4. 636-6	UN	2A 3A	. 00515 . 00385	. 00297	1 1	25 4	2B 3B	. 00665	. 00384	1 1	50 22
45%-12 or 4.625-12	UN	2A 3A	. 00335	. 00193	1 1	51 22	2B 3B	. 00435	. 00251	2 1	23 49
4 ⁵ %-16 or 4. 625-16	UN	2A 3A	. 00305	. 00176	2 1	14 39	2B 3B	. 00395	. 00228	2 2	54 10
4¾-4 or 4. 750-4	UN	2A 3A	. 00585	. 00338	1 0	4 48	2B 3B	. 00765	. 00442	1 1	24 3
4 ³ 4-6 or 4.750-6	UN	2A 3A	. 00515	. 00297	1 1	25 4	2B 3B	. 00670	. 00387	1 1	51 23

Table III.11.—Deviations in lead and half-angle equivalent to one-half of pitch diameter tolerances, Unified screw threads—Con.

				External					Internal		
Nominal size and threads per inch	Series des- ignation	Class	Half of pitch diameter tolerance	Equivalent deviation in lead	devia	valent tion in angle	Class	Half of pitch diameter tolerance	Equivalent deviation in lead	devia	ivalent tion in angle
1	2	3	4	5		6	7	8	9		10
4¾1–12 or 4. 750–12	UN	2A 3A	in. . 00335 . 00250	$in. \\ .00193 \\ .00144$	$\begin{array}{c} deg \\ 1 \\ 1 \end{array}$	min 51 22	2B 3B	in. . 00435 . 00330	in. . 00251 . 00191	$^{deg}_{\substack{2\\1}}$	min 23 49
434-16 or 4. 750-16	UN	2A 3A	. 00305 . 00225	. 00176 . 00130	2	14 29	2B 3B	. 00395 . 00295	. 00228 . 00170	2 2	54 10
476-6 or 4. 875-6	UN	2A 3A	. 00520 . 00390	. 00300 . 00225	1 1	26 4	2B 3B	. 00675 . 00505	. 00390 . 00292	1 1	51 23
47%–12 or 4. 875–12	UN	2A 3A	. 00335 . 00250	. 00193 . 00144	1	51 22	2B 3B	. 00435 . 00330	. 00251 . 00101	1 1	23 49
47%-16 or 4. 875-16	UN	2A 3A	. 00305 . 00225	. 00176 . 00130	2 1	14 39	2B 3B	. 00395 . 00295	. 00228 . 00170	-2	54 10
5–4 or 5. 000–4	UN	2A 3A	. 00595 . 00445	. 00344 . 00257	1 0	5 49	2B 3B	. 00770 . 00580	. 00445 . 00335	1	25 4
5-6 or 5. 000-6	UN	2A 3A	. 00525 . 00390	. 00303 . 00225	1	27 4	2B 3B	. 00680 . 00510	. 00393 . 00294	1	52 24
5-12 or 5. 000-12	UN	2A 3A	. 00335 . 00250	. 00193 . 00144	1	51 22	2B 3B	. 00435	. 00251 . 00191	2	23 49
5-16 or 5. 000-16	UN	2A 3A	. 00305 . 00225	. 00176	2	14 39	2B 3B	. 00395	. 00228 . 00170	2 2	54 10
5½-12 or 5. 125-12	UN	2 A 3 A	. 00335	. 00193 . 00144	1 1	51 22	2B 3B	. 00435	. 00251 . 00191	2 1	23 49
5½-16 or 5. 125-16	UN	2A 3A	. 00305 . 00225	. 00176	2 1	14 39	2B 3B	. 00395 . 00295	. 00228	2 2	54 10
5½-4 or 5.250-4	UN	2A 3A	. 00600 . 00450	. 00346	1 0	6 50	2B 3B	. 00780	. 00450	1 1	26 4
5¼-12 or 5. 250-12	UN	2A 3A	. 00335	. 00193	1 1	51 22	2B 3B	. 00435	. 00251	2	23 49
5¼-16 or 5. 250-16	UN	2A 3A	. 00305 . 00225	. 00176	2 1	14 39	2B 3B	. 00395 . 00295	. 00228 . 00170	2 2	54 10
53/6-12 or 5. 375-12	UN	2A 3A	. 00335	. 00193 . 00144	1 1	51 22	2B 3B	. 00435	. 00251 . 00191	2 1	23 49
53%-16 or 5. 375-16	UN	2A 3A	. 00305 . 00225	. 00176 . 00130	2 1	14 39	2B 3B	. 00395 . 00295	. 00228	2 2	54 10
5½-4 or 5, 500-4	UN	2A 3A	. 00605	. 00349	1 0	7 50	2B 3B	. 00790	. 00456	1 1	27 5
5½-12 or 5. 500-12	UN	2A 3A	. 00335 . 00250	. 00193	1 1	51 22	2B 3B	. 00435	. 00251	2 1	23 49
5½-16 or 5. 500-16	UN	2A 3A	. 00305 . 00225	. 00176	2	14 39	2B 3B	. 00395 . 00295	. 00228	2 2	54 10
55%-12 or 5. 625-12	UN	2A 3A	. 00345	. 00199	1	54 26	2B 3B	. 00450	. 00260 . 00193	2	28 51
55%-16 or 5. 625-16	UN	2A 3A	. 00310 . 00235	. 00179	2	16 43	2B 3B	. 00405 . 00305	. 00234 . 00176	2 2	58 14
5¾-4 or 5. 750-4	UN	2A 3A	. 00610	. 00352	1 0	7 51	2B 3B	. 00795	. 00459	1 1	27 5
5¾-12 or 5. 750-12	UN	2A 3A	. 00345	. 00199	1 1	54 26	2B 3B	. 00450	. 00260 . 00193	2 1	28 51
534-16 or 5.750-16	UN	2A 3A	. 00310	. 00179	2 1	16 43	2B 3B	. 00405	. 00234	2 2	58 14
57/8-12 or 5. 875-12	UN	2A 3A	. 00345	. 00199	1 1	54 26	2B 3B	. 00450 . 00335	. 00260	2 1	28 51
57%-16 or 5. 875-16	UN	2A 3A	. 00310	. 00179	2	16 43	2B 3B	. 00405 . 00305	. 00234	2 2	58 14
6-4 or 6.000-1	UN	2A 3A	. 00620	. 00358	1 0	8 51	2B 3B	. 00805	. 00465	1 1	29
6-12 or 6, 000-12	UN	2A 3A	. 00345	. 00199	1 1	54 26	2B 3B	. 00450	. 00260	2 1	28 51
6-16 or 6.000-16	UN	2A 3A	. 00310	. 00179	2	16 43	2·B 3·B	. 00405	. 00234	2 2	58 14

Table III.12.—Gages for standard thread series, Unified screw threads

		Nominal size and threads	per inch		21	0-80 or 060-80	1-64 or .073-64	1-72 or . 073-72	2–56 or . 086–56	2-64 or . 086-64	3-48 or . 099-48	3–56 or . 099–56	4-40 or .112-40	4-48 or .112-48	5-40 or . 125-40
		Series designa-	tion		20	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC
		Class			19	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B
	lug gages diameter		NOT GO		81	in. 0.0514 0.0513 0.0513	. 0623 . 0622 . 0623 . 0622	.0635 .0634 .0635 .0635	. 0737 . 0736 . 0737 . 0736	. 0753 . 0752 . 0753 . 0753	. 0845 . 0844 . 0845 . 0845	. 0865 . 0864 . 0865 . 0864	. 0939 . 0938 . 0939 . 0938	. 0968 . 0968 . 0967	. 1062 . 1061 . 1062 . 1061
ss.	Z plain plug gages for minor diameter		GO.		17	in. 0.0465 .0466 .0466 .0465	.0561 .0562 .0561 .0562	. 0580 . 0581 . 0580 . 0581	. 0667 . 0668 . 0667 . 0668	. 0691 . 0692 . 0691 . 0692	. 0764 . 0765 . 0764 . 0765	. 0797 . 0798 . 0797 . 0798	. 0849 . 0850 . 0849 . 0850	.0894 .0895 .0894 .0895	. 0979 . 0980 . 0979 . 0980
Gages for internal threads			Pitch diameter	Plus toler- anee gage	16	in. 0.0542 0.0544 0.0536	. 0655 . 0657 . 0648 . 0650	. 0665 . 0667 . 0659 . 0661	.0772 .0774 .0765	. 0786 . 0788 . 0779 . 0781	. 0885 . 0887 . 0877 . 0879	. 0902 . 0904 . 0895 . 0897	. 0991 . 0993 . 0982 . 0984	. 1016 . 1018 . 1008 . 1010	. 1121 . 1123 . 1113
or intern	gages	IH			15	$\begin{array}{c} in. \\ 0.0542 \\ .0540 \\ .0536 \\ .0534 \end{array}$.0655 .0653 .0648 .0646	. 0663 . 0663 . 0659 . 0657	. 0772 . 0770 . 0765 . 0763	. 0786 . 0784 . 0779	. 0885 . 0883 . 0877 . 0875	. 0902 . 0900 . 0895 . 0893	. 0991 . 0989 . 0982 . 0980	.1016 .1014 .1008 .1006	.1121 .1119 .1113
Gages fo	X thread plug		Major diam- eter		14	im. 0.0596 0.0593 0.0590 0.0587	. 0723 . 0719 . 0716 . 0712	. 0725 . 0722 . 0719 . 0716	.0845 .0845 .0838	. 0854 . 0850 . 0847 . 0843	. 0975 . 0971 . 0967 . 0963	. 0979 . 0975 . 0972 . 0968	. 1099 . 1095 . 1090	. 1106 . 1102 . 1098 . 1094	. 1229 . 1225 . 1221 . 121
	X thre	0	Pitch diam- eter			in. 0.0519 0.0521 0.0519 0.0521	. 0629 . 0631 . 0629 . 0631	.0640 .0642 .0640	. 0744 . 0746 . 0744 . 0746	. 0759 . 0761 . 0759 . 0761	. 0855 . 0857 . 0855 . 0857	. 0874 . 0876 . 0874 . 0876	. 0958 . 0960 . 0958 . 0960	. 0985 . 0987 . 0985	. 1088 . 1090 . 1088
		Ö	Major H diam- d eter		12	in. 0.0600 .0603 .0600 .0603	. 0730 . 0734 . 0730 . 0734	. 0730 . 0733 . 0730	. 0860 . 0864 . 0860	. 0864 . 0864 . 0864	. 0990 . 0994 . 0990	.0990 .0994 .0990	. 1120 . 1124 . 1126	1120	. 1250 . 1254 . 1250 . 1254
	for major	0.00	Un-	fi fi	11	in.									
	plain ring gages for major diameter	NOT		Semi- finished	10	in . 0.0563 .0564 .0568 .0569	.0686 .0687 .0692 .0693	. 0689 . 0690 . 0695 . 0696	. 0813 . 0814 . 0819 . 0820	.0816 .0817 .0822 .0823	. 0938 . 0945 . 0946	. 0942 . 0943 . 0949 . 0950	. 1061 . 1062 . 1069	.1068 .1069 .1075	. 1191 . 1192 . 1199 . 1200
reads	Z plain r		GO		6	$im. 0.0595 \ .0594 \ .0599 \ .0599$. 0724 . 0723 . 0730 . 0729	. 0724 . 0723 . 0730 . 0729	. 0854 . 0853 . 0860 . 0859	. 0854 . 0853 . 0860 . 0859	. 0983 . 0990 . 0989	. 0983 . 0990 . 0989	.1112	. 1113 . 1112 . 1120 . 1119	. 1242 . 1241 . 1250 . 1249
Gages for external threads		ind 2A ss 3A		Minor diam- eter	×	in. 0. 0469 0. 0472 0. 0479	. 0569 . 0573 . 0580 . 0584	. 0585 . 0588 . 0596 . 0599	. 0678 . 0682 . 0689	. 0699 . 0703 . 0710	.0780 .0784 .0793 .0797	.0806 .0810 .0819 .0823	.0871 .0875 .0885 .0889	. 0909 . 0913 . 0922 . 0926	. 1004 . 1015 . 1015
ges for ex	gages	LO, classes 1A and 2A NOT GO, class 3A	ameter	Minus toler- anee gage	7	in. 0.0496 0.0494 0.0506	. 0603 . 0601 . 0614	. 0615 . 0613 . 0626 . 0624	.0717 .0715 .0728 .0726	. 0733 . 0731 . 0744 . 0742	. 0825 . 0823 . 0838 . 0836	.0845 .0843 .0858	. 0925 . 0923 . 0937	. 0954 . 0952 . 0967	. 1054 . 1052 . 1069 . 1067
Ga	X thread ring	LO, ela NOT	Pitch dia	Plus toler- anee gage	9	in. 0.0496 .0498 .0506	.0603 .0605 .0614 .0616	. 0615 . 0617 . 0626 . 0628	. 0717 . 0719 . 0728 . 0730	. 0733 . 0735 . 0744 . 0746	. 0825 . 0827 . 0838 . 0840	.0845 .0847 .0858 .0860	. 0925 . 0927 . 0939 . 0941	. 0954 . 0956 . 0967 . 0969	. 1054 . 1056 . 1069 . 1071
	X thr	. 0		Minor diam- eter	5	in. 0.0460 0.0457 0.0465	. 0555 . 0551 . 0561 . 0557	. 0574 . 0571 . 0580 . 0577	. 0661 . 0657 . 0663	. 0685 . 0681 . 0691 . 0687	.0758 .0754 .0765	.0790 .0786 .0797 .0793	.0842 .0838 .0850 .0846	.0888 .0884 .0895	. 0972 . 0968 . 0980 . 0976
	GO Godam- eter				4	in. 0.0514 .0512 .0519	. 0623 . 0621 . 0629 . 0627	.0634 .0632 .0640	.0738 .0736 .0744 .0742	. 0753 . 0751 . 0759	. 0848 . 0846 . 0855 . 0853	. 0865 . 0865 . 0874 . 0872	. 0950 . 0948 . 0958	. 0978 . 0976 . 0985 . 0983	. 1080 . 1078 . 1088 . 1086
	Class					2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A
	Series designa- tion				67	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC
	Nominal size and threads per inch				1	0-80 or . 060-80	1-64 or .073-64	1-72 or .073-72	2-56 or . 086-56	2-64 or . 086-64	3-48 or .099-48	3–56 or . 099–56	4-40 or .112-40	4-48 or 112-48	5-40 or . 125-40

--- 1891 | 1892 | 1801 | 1000

5-44 or . 125-44	6-32 or . 138-32	6-40 or . 138-40	8-32 or . 164-32	8-36 or . 164-36	10–24 or . 190–24	10-32 or . 190-32	12-24 or . 216-24	12-28 or . 216-28	12-32 or . 216-32)4-20 or . 250-20	74–28 or)4–32 or . 250–32	\$16-18 or .3125-18
UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNEF	UNC	UNF	UNEF	UNC
2B 3B	1B 2B 3B	1B 2B 3B	2B 3B	1B 2B 3B									
. 1079 . 1078 . 1079	.1140	.1190 .1189 .1186	. 1390 . 1389 . 1389 . 1388	.1420 .1419 .1416	.1560 .1559 .1555 .1554	. 1640 . 1639 . 1641	. 1810 . 1809 . 1807 . 1806	.1860 .1859 .1857 .1856	. 1900 . 1899 . 1895 . 1894	. 2070 . 2069 . 2069 . 2067 . 2067	. 2200 . 2199 . 2199 . 2190 . 2190	. 2240 . 2239 . 2229 . 2228	. 2650 . 2649 . 2649 . 2630 . 2629
. 1004 . 1005 . 1004	. 1040 . 1041 . 1041	01111	.1300 .1301 .1300 .1301	1340 1341 1340 1341	. 1450 . 1451 . 1450 . 1451	.1560 .1561 .1560 .1561	1710 1711 1711 1710	1770 1771 1771 1771	. 1820 . 1821 . 1820 . 1821	. 1960 . 1961 . 1961 . 1960 . 1961	2110 2110 2110 2110	. 2160 . 2161 . 2160 . 2161	. 2520 . 2521 . 2520 . 2521 . 2520 . 2520
. 1134 . 1126 . 1128	. 1214 . 1217 . 1204 . 1207	. 1252 . 1254 . 1243 . 1245	. 1475 . 1478 . 1465 . 1468	. 1496 . 1498 . 1487 . 1489	. 1672 . 1675 . 1661 . 1664	. 1736 . 1739 . 1726 . 1729	. 1933 . 1936 . 1922 . 1925	. 1970 . 1973 . 1959 . 1962	. 1998 . 2001 . 1988 . 1991	. 2248 . 2251 . 2224 . 2227 . 2211	2333 2336 2311 2314 2300 2303	. 2339 . 2342 . 2328 . 2331	2843 2846 2817 2820 2803 2803
. 1134 . 1132 . 1126	. 1214 . 1211 . 1204 . 1201	. 1252 . 1250 . 1243 . 1241	.1475 .1472 .1465 .1462	. 1496 . 1494 . 1487 . 1485	. 1672 . 1669 . 1661 . 1658	.1736 .1733 .1726 .1726	. 1933 . 1930 . 1922 . 1919	. 1970 . 1967 . 1959 . 1956	. 1998 . 1995 . 1988 . 1985	. 2248 . 2224 . 2224 . 2221 . 2211	. 2333 . 2330 . 2311 . 2308 . 2300	. 2336 . 2336 . 2328	2843 2840 2817 2814 2803 2800
. 1232 . 1228 . 1224 . 1220	. 1349 . 1344 . 1339	. 1356 . 1356 . 1351	. 1610 . 1605 . 1600 . 1595	. 1616 1612 1607 . 1603	. 1852 . 1847 . 1841 . 1836	. 1871 . 1866 . 1861 . 1856	. 2113 . 2108 . 2102 . 2097	. 2125 . 2120 . 2114 . 2114	. 2133 . 2128 . 2123 . 2123	. 2465 . 2460 . 2441 . 2436 . 2428	2488 2483 2466 2461 2455 2455	. 2474 . 2469 . 2463 . 2458	. 3084 . 3079 . 3058 . 3053 . 3044
1102	7711. 1180 7711.	. 1218 . 1220 . 1218 . 1220	. 1437 . 1440 . 1437 . 1440	. 1460 . 1462 . 1460 . 1462	. 1629 . 1632 . 1629 . 1632	.1697 .1700 .1697 .1700	. 1889 . 1892 . 1889	. 1928 . 1931 . 1928	. 1957 . 1960 . 1957 . 1960	. 2175 . 2178 . 2175 . 2178 . 2178	. 2268 . 2271 . 2268 . 2271 . 2268	. 2297 . 2300 . 2297 . 2300	2764 2764 2764 2767 2767
. 1250 . 1254 . 1250	. 1385 . 1385 . 1380	. 1380 . 1384 . 1380 . 1384	. 1640 . 1645 . 1640 . 1645	. 1640 . 1644 . 1640 . 1644	. 1900 . 1905 . 1900 . 1905	. 1900 . 1905 . 1906	. 2160 . 2165 . 2160 . 2165	. 2160 . 2165 . 2160 . 2165	. 2160 . 2165 . 2160 . 2165	2500 2500 2500 2505 2505 2505	2500 2505 2505 2506 2505 2505	. 2500 . 2505 . 2506 . 2505	3125 3125 3125 3125 3125 3130
										0. 2367			. 2982
. 1195 . 1196 . 1202 . 1203	. 1312 . 1313 . 1220 . 1321	. 1321 . 1322 . 1329 . 1330	. 1571 . 1572 . 1580 . 1581	.1577 .1578 .1585 .1585	. 1818 . 1819 . 1828 . 1829	. 1831 . 1832 . 1840 . 1841	. 2078 . 2079 . 2088 . 2089	. 2085 . 2086 . 2095 . 2096	. 2091 . 2092 . 2100 . 2101	. 2367 . 2408 . 2409 . 2419	2392 2425 2426 2426 2436 2436	. 2430 . 2431 . 2440 . 2441	. 2982 . 2983 . 3026 . 3027 . 3038
. 1243 . 1242 . 1250 . 1249	. 1372 . 1371 . 1380 . 1379	. 1372 . 1371 . 1380 . 1379	. 1631 . 1630 . 1640 . 1639	. 1632 . 1631 . 1640 . 1639	. 1890 . 1889 . 1900 . 1899	. 1891 . 1890 . 1900 . 1899	. 2150 . 2149 . 2160 . 2159	. 2150 . 2149 . 2160 . 2159	. 2151 . 2150 . 2160 . 2159	. 2489 . 2489 . 2489 . 2500 . 2499	. 2490 . 2490 . 2490 . 2500 . 2499	. 2490 . 2489 . 2500 . 2499	. 3113 . 3113 . 3113 . 3125 . 3125
. 1021 . 1025 . 1034 . 1038	. 1073 . 1078 . 1088 . 1093	. 1130 . 1134 . 1144 . 1148	. 1331 . 1336 . 1347 . 1352	. 1364 . 1368 . 1379 . 1383	. 1496 . 1501 . 1514 . 1519	. 1590 . 1595 . 1606 . 1611	. 1755 . 1760 . 1773 . 1773	. 1809 . 1814 . 1827 . 1832	. 1849 . 1854 . 1865 . 1870	2000 2005 2019 2024 2039 2044	2131 2148 2153 2153 2166	. 2192 . 2192 . 2205 . 2210	2571 2576 2592 2597 2614 2619
. 1070 . 1068 . 1083 . 1081	. 1141 . 1138 . 1156	. 1184 . 1182 . 1198 . 1196	. 1399 . 1396 . 1415	. 1424 . 1422 . 1439 . 1437	. 1586 . 1583 . 1604 . 1601	. 1658 . 1655 . 1674 . 1671	. 1845 . 1842 . 1863 . 1860	. 1886 . 1883 . 1904	. 1917 . 1914 . 1933 . 1930	2108 2127 2124 2124 2147 2147	. 2208 . 2205 . 2225 . 2222 . 2243 . 2240	. 2255 . 2252 . 2273 . 2270	2691 2688 2712 2709 2734 2734
. 1070 . 1072 . 1083	. 1141 . 1144 . 1156 . 1159	. 1184 . 1186 . 1198 . 1200	. 1399 . 1402 . 1415 . 1418	. 1424 . 1426 . 1439 . 1441	. 1586 . 1589 . 1604 . 1607	. 1658 . 1661 . 1674 . 1677	. 1845 . 1848 . 1863 . 1866	. 1886 . 1889 . 1904	. 1917 . 1920 . 1933 . 1936	2108 2111 2127 2130 2147 2150	. 2208 . 2211 . 2225 . 2228 . 2243 . 2246	. 2255 . 2258 . 2273 . 2276	2694 2712 2712 2715 2715 2734
. 0997 . 0993 . 1004	. 1034 . 1029 . 1042 . 1037	. 1102 . 1098 . 1110	. 1293 . 1288 . 1302 . 1297	. 1332 . 1328 . 1340 . 1336	. 1439 . 1449 . 1444	. 1553 . 1548 . 1562 . 1557	. 1699 . 1694 . 1709	. 1763 . 1758 . 1773 . 1768	. 1813 . 1808 . 1822 . 1817	. 1947 . 1942 . 1942 . 1958 . 1958	. 2103 . 2098 . 2103 . 2098 . 2113	2152 2147 2162 2162	. 2511 . 2506 . 2511 . 2506 . 2523 . 2518
. 1095 . 1093 . 1102	. 1169 . 1166 . 1177	. 1210 . 1208 . 1218 . 1216	. 1428 . 1425 . 1437 . 1434	. 1452 . 1450 . 1460 . 1458	. 1619 . 1616 . 1629 . 1626	. 1685 . 1685 . 1697 . 1694	. 1879 . 1876 . 1889 . 1886	. 1918 . 1915 . 1928 . 1925	. 1948 . 1945 . 1957 . 1954	. 2164 . 2161 . 2164 . 2161 . 2175	. 2258 . 2258 . 2258 . 2268 . 2268	. 2284 . 2294 . 2294	2752 2749 2752 2749 2749 2764
2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2.A 3.A	2A 3A	2A 3A	2A 3A	1A 2A 3A	1A 2A 3A	2A 3A	1A 2A 3A
UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNEF	UNC	UNF	UNEF	UNC
5-44 or . 125-44	6-32 or	6-40 or .138-40	8-32 or . 164-32	8-36 or	10-24 or . 190-24	10–32 or . 190–32	12-24 01	12–28 or . 216–28	12-32 or . 216-32	1/4-20 or 250-20	1,4-28 or . 250-28	14-32 or . 250-32	\$16-18 or

Table III.12.—Gages for standard thread series, Unified screw threads—Continued

		Nomina Size and	perineh		21	5/6-20 or . 3125-20	5/6-24 or . 3125-24	\$16-28 or . 3125-28	\$16-32 or 3125-32	38-16 or375-16	3/8-20 or 375-20	38-24 or . 375-24	3/8-28 or . 375-28	38–32 or .375–32
		Series designa- tion			20	ÛN	UNF	UN	UNEF	UNC	UN	UNF	ND	UNBE
		Class			19	2B 3B	1B 2B 3B	2B 3B	2B 3B	1B 2B 3B	2B 3B	1B 2B 3B	2B 3B	2B 3B
	ug gages diameter		NOT		18	in. 2700 2689 2689 2679	. 2770 . 2769 . 2770 . 2769 . 2754	. 2820 . 2819 . 2807 . 2806	. 2860 . 2859 . 2847 . 2846	. 3210 . 3209 . 3209 . 3182 . 3181	. 3320 . 3319 . 3297 . 3296	. 3400 . 3399 . 3399 . 3372	. 3450 . 3449 . 3426 . 3425	. 3490 . 3469 . 3469
	Z plain plug gages for minor diameter		0Đ		17	in. 2580 . 2581 . 2580 . 2581 . 2581	. 2670 . 2671 . 2670 . 2671 . 2670	. 2740 . 2741 . 2740 . 2741	. 2790 . 2790 . 2790	. 3070 . 3071 . 3070 . 3071 . 3070	. 3210 . 3211 . 3210 . 3211	. 3300 . 3301 . 3301 . 3300 . 3301	. 3360 . 3361 . 3360 . 3361	. 3410 . 3411 . 3410
Gages for internal threads			ameter	Plus toler- ance gage	16	in. 2852 2855 2839 2842	2925 2928 2902 2905 2890	. 2937 . 2940 . 2926 . 2929	. 2964 . 2967 . 2953 . 2956	. 3429 . 3432 . 3401 . 3387 . 3390	. 3479 . 3482 . 3465 . 3468	. 3553 . 3556 . 3528 . 3531 . 3516 . 3519	. 3564 . 3567 . 3553 . 3556	3591 3594 3580 3583
r interna	gages	HI	Pitch diameter	Minus toler- ance gage	15	in. 2852 2849 2839 2836	. 2925 . 2922 . 2902 . 2899 . 2890	. 2934 . 2934 . 2926 . 2923	. 2964 . 2961 . 2953 . 2950	3429 3426 3401 3398 3387 3387	.3479 .3465 .3465	3553 3550 3528 3525 3516 3513	. 3564 . 3561 . 3553	. 3591 . 3588 . 3580 . 3577
Gages fo	X thread plug g		Major diam- eter	14	in. .3069 .3064 .3056	3105 3100 3082 3077 3077	. 3092 . 3087 . 3081 . 3076	. 3094 . 3084 . 3083 . 3083	.3700 .3694 .3672 .3656 .3658	.3696 .3691 .3682 .3677	. 3733 . 3728 . 3708 . 3703 . 3696 . 3691	. 3719 . 3714 . 3708 . 3703	. 3726 . 3721 . 3715 . 3710	
	GO Major P diam di			Pitch diam- eter	13	in. 2800 2803 2800 2800	2854 2857 2857 2857 2857 2854	. 2893 . 2896 . 2893 . 2896	. 2922 2925 2922 2925	. 3344 . 3347 . 3344 . 3347 . 3347 . 3344	. 3425 . 3428 . 3425 . 3428	.3479 .3482 .3479 .3482 .3482 .3482	. 3518 . 3521 . 3518 . 3521	. 3547 . 3550 . 3547 . 3550
	GO Major P diam- eter di			Major diam- eter	12	in. .3125 .3130 .3125 .3125	.3125 .3130 .3125 .3130 .3125 .3125	. 3125 . 3130 . 3125 . 3130	. 3125 . 3130 . 3125 . 3130	.3750 .3756 .3756 .3756 .3756 .3756	. 3750 . 3755 . 3750 . 3750	. 3750 . 3755 . 3756 . 3756 . 3755 . 3756	. 3750 . 3755 . 3750 . 3755	. 3750 . 3755 . 3750 . 3755
	Major diam eter			finished hot- rolled material	11	in.				.3595				
					10	in. 3032 . 3033 . 3044 . 3045	.3006 .3007 .3042 .3043 .3053	. 3050 . 3051 . 3060 . 3061	. 3055 . 3056 . 3065 . 3066	. 3595 . 3596 . 3643 . 3644 . 3656	. 3657 . 3658 . 3669 . 3670	. 3631 . 3632 . 3667 . 3668 . 3678	.3674 .3675 .3685 .3686	. 3680 . 3681 . 3690 . 3691
reads					6	im . 3113 . 3112 . 3125 . 3124	.3114 .3113 .3114 .3113 .3125	.3115 .3114 .3125 .3124	. 3115 . 3114 . 3125 . 3124	. 3737 . 3736 . 3737 . 3736 . 3750 . 3750	. 3738 . 3737 . 3750 . 3749	3739 3739 3739 3738 3750 3750	. 3739 . 3738 . 3750 . 3749	. 3740 . 3739 . 3750
Gages for external threads		nd 2A : 3A		Minor diam- eter	×	in. 2640 2645 2662 2662	2698 2703 2716 2721 2737 2742	. 2772 . 2777 . 2790 . 2795	. 2812 . 2817 . 2830 . 2835	. 3131 . 3137 . 3152 . 3158 . 3176 . 3182	. 3264 . 3269 . 3286 . 3291	. 3321 . 3326 . 3340 . 3345 . 3360	. 3394 . 3399 . 3414 . 3419	. 3435 . 3440 . 3454 . 3459
ges for ex	gages	lasses 1A and 2A GO, class 3A	Pitch diameter	Minus toler- ance gage	2	im. 2748 2745 2770	. 2788 . 2785 . 2806 . 2803 . 2827 . 2824	. 2849 . 2846 . 2867 . 2864	. 2880 . 2877 . 2898 . 2895	. 3266 . 3263 . 3287 . 3284 . 3311 . 3308	. 3372 . 3369 . 3394 . 3391	. 3411 . 3408 . 3430 . 3427 . 3450	.3471 .3468 .3491 .3488	. 3503 . 3500 . 3522 . 3519
Ga	X thread ring	LO, clas	Pitch d	Plus toler- anee gage	9	in. 2748 2751 2770 2773	. 2788 . 2791 . 2806 . 2809 . 2827 . 2830	. 2849 . 2852 . 2867 . 2870	. 2883 . 2883 . 2898 . 2901	. 3266 . 3269 . 3287 . 3290 . 3311 . 3314	. 3372 . 3375 . 3394 . 3397	. 3411 . 3414 . 3430 . 3433 . 3453	.3471 .3474 .3491 .3494	. 3503 . 3506 . 3522 . 3525
	X thr	0		Minor diam- eter	20	in. . 2571 . 2566 . 2583 . 2578	. 2663 . 2658 . 2658 . 2658 . 2674 . 2669	. 2728 . 2723 . 2738 . 2733	. 2772 . 2772 . 2787 . 2782	3060 3054 3054 3054 3073 3073	. 3196 . 3191 . 3208 . 3203	. 3288 . 3283 . 3283 . 3289 . 3299	. 3352 . 3347 . 3363 . 3358	. 3402 . 3397 . 3412 . 3407
	GO GO Pitch Minor diam-diam-diam-diam			Pitch diam- cter	4	in. 2788 2785 . 2785 . 2800	. 2843 . 2840 . 2840 . 2840 . 2854 . 2851	. 2283 . 2880 . 2893 . 2890	. 2912 . 2909 . 2922 . 2919	.3328 .3328 .3331 .3328 .3344 .3344	. 3413 . 3410 . 3425 . 3422	.3468 .3465 .3465 .3465 .3479	. 3507 . 3504 . 3518 . 3515	. 3537 . 3534 . 3547 . 3544
	Class			83	2A 3A	1A 2A 3A	2A 3A	2A 3A	1A 2A 3A	2A 3A	1A 2A 3A	2A 3A	2A 3A	
	Series designa- tion				2	ÛN	UNF	UN	UNEF	UNC	UN	UNF	UN	UNEF
	Nominal Series size and designathreads tion per inch				1	\$16-20 or .3125-20	5/6-24 or 3125-24	5/16-28 or . 3125-28	\$16-32 or 3125-32	38-16 or .375-16	3/8-20 or 375-20	38-24 or 375-24	38–28 or . 375–28	3/8-32 or 375-32

HI H 0008; | 0008; | 1 000 | 1 000 | 1 000 | 1 000 |

7/6-14 or . 4375-14	7/6-16 or . 4375-16	. 47/16-20 or 375-20	. 47/16-28 or 375-28	7/16-32 or . 4375-32	1½-13 or . 500-13	1/2-16 or 500-16	1/2-20 or 500-20)½-28 or . 500-28	1/2-32 or 500-32	%16-12 or 5625-12	%16-16 or .5625-16	9/6-18 or 5625-18
UNC	UN	UNF	UNEF	UN	UNC	UN	UNF	UNEF	UN	UNC	NN	UNF
11B 2B 3B	2B 3B	1B 2B 3B	2B 3B	2B 3B	1B 2B 3B	2B 3B	1B 2B 3B	2B 3B	2B 3B	1B 2B 3B	2B 3B	1B 2B 3B
. 3760 . 3759 . 3759 . 3759 . 3717	. 3840 . 3839 . 3800	. 3950 . 3949 . 3949 . 3916	. 4070 . 4069 . 4051 . 4050	. 4110 . 4109 . 4094 . 4093	.4340 .4339 .4340 .4284 .4284	. 4460 . 4459 . 4419	.4570 .4569 .4570 .4569 .4537	. 4700 . 4699 . 4676 . 4675	. 4740 . 4739 . 4719	. 4900 . 4899 . 4900 . 4843 . 4842	. 5090 . 5089 . 5040	.5150 .5149 .5150 .5149 .5106
. 3600 . 3601 . 3601 . 3600 . 3601	. 3700 . 3701 . 3700	. 3830 . 3831 . 3831 . 3831 . 3831 . 3831	. 3990 . 3991 . 3990	. 4040 . 4041 . 4040	. 4170 . 4171 . 4170 . 4171 . 4170	. 4320 . 4321 . 4320 . 4321	. 4460 . 4461 . 4461 . 4460 . 4460	. 4610 . 4611 . 4610 . 4611	. 4660 . 4661 . 4660 . 4661	. 4720 . 4721 . 4720 . 4721 . 4720	. 4950 . 4951 . 4950 . 4951	. 5020 . 5021 . 5020 . 5021 . 5020 . 5020
. 4003 . 4006 . 3972 . 3975 . 3957	. 4028 . 4031 . 4014 . 4017	. 4131 . 4134 . 4104 . 4107 . 4091	. 4189 . 4178 . 4178 . 4181	. 4216 . 4219 . 4205 . 4208	.4597 .4600 .4565 .4568 .4548	. 4655 . 4658 . 4640 . 4643	. 4759 . 4762 . 4731 . 4734 . 4717 . 4720	. 4816 . 4819 . 4804 . 4807	. 4842 . 4845 . 4831 . 4834	. 5186 . 5189 . 5152 . 5155 . 5135	. 5280 . 5283 . 5265 . 5268	. 5353 . 5323 . 5323 . 5326 . 5308 . 5311
. 4003 . 4000 . 3972 . 3957 . 3957	. 4028 . 4025 . 4014 . 4011	. 4131 . 4128 . 4104 . 4101 . 4091 . 4088	. 4189 . 4178 . 4175	. 4216 . 4213 . 4205 . 4202	. 4594 . 4565 . 4565 . 4562 . 4548 . 4545	. 4655 . 4652 . 4640 . 4637	. 4759 . 4756 . 4731 . 4728 . 4717 . 4714	. 4816 . 4813 . 4804 . 4801	. 4842 . 4839 . 4831 . 4828	. 5186 . 5183 . 5152 . 5149 . 5135	. 5280 . 5277 . 5265 . 5262	. 5353 . 5323 . 5320 . 5308 . 5308
. 4312 . 4306 . 4281 . 4275 . 4266 . 4266	. 4299 . 4293 . 4285 . 4279	. 4348 . 4343 . 4321 . 4316 . 4308	. 4344 . 4339 . 4333	. 4351 . 4346 . 4340 . 4335	. 4930 . 4924 . 4898 . 4892 . 4881	. 4926 . 4920 . 4911 . 4905	. 4976 . 4948 . 4943 . 4934 . 4934	. 4971 . 4966 . 4959 . 4954	. 4977 . 4972 . 4966 . 4961	. 5547 . 5541 . 5513 . 5507 . 5496 . 5490	. 5551 . 5545 . 5536 . 5530	. 5594 . 5589 . 5564 . 5559 . 5549
. 3911 . 3914 . 3911 . 3914 . 3914	. 3969 . 3972 . 3969 . 3972	. 4050 . 4053 . 4050 . 4053 . 4050	. 4143 . 4146 . 4143 . 4146	. 4172 . 4175 . 4172 . 4175	. 4500 . 4503 . 4500 . 4503 . 4500	. 4594 . 4597 . 4594 . 4597	. 4675 . 4675 . 4675 . 4678 . 4675	. 4768 . 4771 . 4768 . 4771	. 4797 . 4800 . 4797 . 4800	. 5084 . 5087 . 5087 . 5084 . 5084	. 5219 . 5222 . 5219 . 5222	. 5264 . 5267 . 5267 . 5264 . 5264
. 4375 . 4375 . 4375 . 4381 . 4375	. 4375 . 4381 . 4375 . 4375	. 4375 . 4380 . 4375 . 4375 . 4375	. 4375 . 4380 . 4375 . 4380	. 4375 . 4375 . 4375 . 4380	. 5000 . 5000 . 5006 . 5006	. 5000 . 5006 . 5000 . 5006	. 5000 . 5005 . 5005 . 5005	. 5000 . 5005 . 5005	. 5000 . 5005 . 5000	. 5625 . 5631 . 5625 . 5631 . 5625	. 5625 . 5631 . 5625 . 5631	. 5625 . 5630 . 5625 . 5630 . 5625
. 4206					. 4822					. 5437		
. 4206 . 4207 . 4258 . 4272 . 4273	. 4267 . 4268 . 4281 . 4282	. 4240 . 4241 . 4281 . 4282 . 4294 . 4295	. 4299 . 4300 . 4310	. 4305 . 4306 . 4315 . 4316	.4823 .4823 .4876 .4877 .4891	. 4892 . 4893 . 4906 . 4907	. 4865 . 4866 . 4906 . 4907 . 4919 . 4920	. 4924 . 4925 . 4935 . 4936	. 4930 . 4931 . 4940 . 4941	. 5437 . 5438 . 5495 . 5496 . 5511	. 5517 . 5518 . 5531 . 5532	. 5480 . 5481 . 5524 . 5525 . 5538
. 4361 . 4360 . 4361 . 4376 . 4375	. 4361 . 4360 . 4375	. 4362 . 4361 . 4362 . 4375 . 4374	. 4364 . 4363 . 4375	. 4365 . 4364 . 4375 . 4374	. 4985 . 4984 . 4985 . 4984 . 5000 . 4999	. 4986 . 4985 . 5000 . 4999	. 4987 . 4986 . 4987 . 4986 . 5000	. 4989 . 4988 . 5000 . 4999	. 4990 . 4989 . 5000 . 4999	. 5609 . 5608 . 5609 . 5625 . 5624	. 5611 . 5610 . 5625 . 5624	. 5611 . 5610 . 5610 . 5610 . 5625 . 5624
. 3671 . 3677 . 3695 . 3701 . 3721	. 3774 . 3780 . 3800 . 3806	. 3866 . 3871 . 3887 . 3892 . 3911	. 4019 . 4024 . 4039 . 4044	. 4065 . 4065 . 4079 . 4084	. 4245 . 4251 . 4251 . 4275 . 4297 . 4303	. 4398 . 4404 . 4424 . 4430	. 4490 . 4495 . 4511 . 4516 . 4535	. 4643 . 4648 . 4663 . 4668	. 4684 . 4689 . 4703 . 4708	. 4810 . 4816 . 4842 . 4865 . 4865	. 5023 . 5029 . 5049 . 5055	. 5062 . 5067 . 5085 . 5090 . 5110
.3826 .3823 .3850 .3847 .3876	. 3909 . 3936 . 3935	. 3974 . 3971 . 3995 . 3992 . 4019	. 4096 . 4093 . 4116	. 4128 . 4125 . 4147	. 4411 . 4408 . 4435 . 4432 . 4463	. 4533 . 4530 . 4559 . 4556	. 4598 . 4595 . 4619 . 4616 . 4643 . 4640	. 4720 . 4717 . 4740	. 4752 . 4749 . 4771	. 4990 . 4987 . 5016 . 5013 . 5045	. 5158 . 5155 . 5184 . 5181	. 5182 . 5179 . 5205 . 5202 . 5230 . 5230
.3826 .3829 .3850 .3853 .3876	. 3909 . 3912 . 3935 . 3938	.3974 .3977 .3995 .3998 .4019	. 4096 . 4099 . 4116	. 4128 . 4131 . 4147 . 4150	. 4411 . 4414 . 4435 . 4438 . 4463	. 4533 . 4536 . 4559 . 4562	. 4598 . 4601 . 4619 . 4622 . 4643	. 4720 . 4723 . 4740 . 4743	. 4752 . 4755 . 4771	. 4990 . 4993 . 5016 . 5019 . 5045 . 5048	. 5158 . 5161 . 5184 . 5187	. 5182 . 5185 . 5205 . 5208 . 5230 . 5233
. 3588 . 3582 . 3582 . 3582 . 3602 . 3596	.3684 .3678 .3698 .3692	3820 3815 3820 3815 3833 3828	. 3977 . 3972 . 3988 . 3983	. 4027 . 4022 . 4037 . 4032	.4152 .4146 .4152 .4146 .4167	. 4309 . 4303 . 4323 . 4317	. 4445 . 4440 . 4446 . 4446 . 4458	. 4602 . 4597 . 4613 . 4608	. 4652 . 4647 . 4662 . 4657	.4707 .4701 .4707 .4701 .4723	. 4934 . 4928 . 4948 . 4942	. 5009 . 5004 . 5004 . 5023 . 5018
. 3897 . 3894 . 3897 . 3894 . 3911	. 3955 . 3952 . 3969 . 3966	. 4037 . 4034 . 4034 . 4034 . 4050 . 4047	. 4132 . 4129 . 4143 . 4140	. 4162 . 4159 . 4172 . 4169	. 4485 . 4485 . 4485 . 4482 . 4500 . 4500	. 4580 . 4577 . 4594 . 4591	. 4662 . 4659 . 4659 . 4659 . 4675	. 4757 . 4754 . 4768 . 4765	. 4787 . 4784 . 4797 . 4794	. 5068 . 5065 . 5068 . 5065 . 5084 . 5081	. 5205 . 5202 . 5219 . 5216	. 5250 . 5247 . 5250 . 5247 . 5264
1A 2A 3A	2A 3A	1A 2A 3A	2A 3A	2.A 3.A	1A 2A 3A	2A 3A	1A 2A 3A	2A 3A	2A 3A	1A 2A 3A	2A 3A	1A 2A 3A
UNC	UN	UNF	UNEF	UN	UNC	UN	UNF	UNEF	UN	UNC	UN	UNF
7/6-14 or . 4375-14	7/16-16 or . 4375-16	7/6-20 or . 4375-20	7/16-28 or . 4375-28	7/6-32 or . 4375-32	½-13 or . 500-13	1/2-16 or . 500-16	,500-20 ,500-20	3½-28 or . 500-28	1/2-32 or . 500-32	9/6-12 or . 5625-12	9/6-16 or . 5625-16	916-18 or

Table III.12.—Gages for standard thread series, Unified screw threads—Continued

		Nominal Size and	perineh		21	9/6-20 or . 5625-20	%16-24 or . 5625-24	9/6-28 or . 5625-28	946-32 or . 5625-32	\$8-11 or .625-11	\$\frac{9}{9} \text{8-12 or}{625-12}	58-16 or . 625-16	\$\$-18 or . 625-18	58-20 or . 625-20
		Series designa- tion			20	NO	UNEF	ND	NO	UNG	N O	ND	UNF	Z D
		Class			19	2B 3B	2B 3B	2B 3B	2B 3B	1B 2B 3B	2B 3B	2B 3B	1B 2B 3B	2B 3B
	Z plain plug gages for minor diameter		TON		18	in. . 5200 . 5199 . 5162	. 5269 . 5269 . 5244 . 5243	. 5320 . 5319 . 5301 . 5300	. 5360 . 5359 . 5344 . 5343	. 5460 . 5459 . 5460 . 5459 . 5391	. 5530 . 5529 . 5463 . 5462	. 5710 . 5709 . 5662 . 5661	. 5780 . 5779 . 5780 . 5779 . 5730	. 5820 . 5819 . 5787 . 5786
so.	Z plain p for minor		00		17	in. .5080 .5081 .5080 .5080	.5170 .5171 .5170 .5170	. 5240 . 5241 . 5240 . 5241	. 5290 . 5291 . 5290	. 5270 . 5271 . 5270 . 5271 . 5270	. 5350 . 5351 . 5350 . 5351	. 5650 . 5571 . 5570 . 5571	. 5570 . 5651 . 5650 . 5651 . 5651	. 5710 . 5711 . 5710 . 5710
Gages for internal threads			Pitch diameter	Plus toler- ance gage	16	in. 5355 5358 5341 5344	. 5405 . 5408 . 5392 . 5395	. 5441 . 5444 . 5429 . 5432	. 5467 . 5470 . 5456 . 5459	. 5767 . 5770 . 5732 . 5735 . 5735 . 5714	.5780 .5783 .5762 .5765	. 5906 . 5909 . 5890	. 5980 . 5983 . 5949 . 5952 . 5954 . 5934	. 5981 . 5984 . 5967 . 5970
or intern	gages	111	Pitch d	Minus toler- ance gage	15	in. 5355 5352 5341 5341	. 5405 . 5402 . 5392 . 5389	. 5441 . 5438 . 5429 . 5426	. 5467 . 5464 . 5456 . 5453	. 5767 . 5764 . 5732 . 5729 . 5714	. 5780 . 5777 . 5762 . 5759	. 5906 . 5903 . 5890 . 5887	. 5980 . 5977 . 5949 . 5946 . 5934	. 5981 . 5978 . 5967 . 5964
Gages f	read plug	X thread plug g			14	in. .5572 .5567 .5558 .5558	. 5585 . 5580 . 5572 . 5567	. 5596 . 5591 . 5584 . 5579	. 5602 . 5597 . 5591 . 5586	. 6161 . 6155 . 6126 . 6120 . 6108	.6141 .6135 .6123 .6117	.6177 .6171 .6161 .6155	.6221 .6216 .6190 .6185 .6185 .6175	.6198 .6193 .6184 .6179
	X thu	X X			13	in. .5300 .5303 .5300	.5354 .5357 .5354 .5354	. 5393 . 5396 . 5393 . 5396	. 5425 . 5425 . 5422 . 5422	. 5660 . 5663 . 5660 . 5660 . 5660	. 5709 . 5712 . 5709 . 5712	. 5844 . 5847 . 5844 . 5847	5889 5889 5889 5889 5889 5889 5889	. 5925 . 5928 . 5925 . 5928
		GO GO Major Pit diam diam cter etc				in. 5625 . 5630 . 5625 . 5630	. 5625 . 5630 . 5625 . 5630	. 5625 . 5630 . 5625 . 5630	. 5625 . 5630 . 5625 . 5630	. 6250 . 6250 . 6250 . 6256 . 6256 . 6256	. 6250 . 6256 . 6250 . 6250	.6250 .6256 .6250 .6256	. 6255 . 6255 . 6255 . 6255 . 6255	. 6250 . 6255 . 6250 . 6256
	for major	GG Major diam- cter				in.				. 6052				
	NOT GO Semi-finished finished finished finished rolled naterial material naterial			Semi- finished	10	in. .5531 .5532 .5544 .5545	. 5541 . 5542 . 5553 . 5554	. 5549 . 5550 . 5560 . 5561	. 5555 . 5556 . 5565 . 5566	.6052 .6053 .6113 .6114 .6129	.6120 .6121 .6136 .6136	.6142 .6143 .6156	.6106 .6106 .6149 .6150 .6163	. 6156 . 6157 . 6169 . 6170
reads	Z plain ring gages for m diameter NOT GO Semi-finished finished riol Infinished riol Infinishe				6	in. 5612 . 5611 . 5625 . 5624	. 5613 . 5612 . 5625 . 5624	5614 5613 5625 5624	. 5615 . 5614 . 5625 . 5624	6234 6234 6234 6233 6250 6249	. 6234 . 6233 . 6250 . 6249	. 6236 . 6235 . 6250 . 6249	. 6236 . 6235 . 6235 . 6235 . 6250	. 6236 . 6236 . 6250 . 6249
for external threads		and 2A s 3A		Minor diam- eter	∞	in. . 5137 . 5142 . 5160	. 5213 . 5218 . 5235 . 5240	. 5268 . 5273 . 5288 . 5293	. 5309 . 5314 . 5328 . 5333	. 5364 . 5370 . 5392 . 5398 . 5422 . 5422	. 5465 . 5465 . 5488 . 5494	. 5647 . 5653 . 5673 . 5679	. 5685 . 5690 . 5708 . 5713 . 5734 . 5739	. 5761 . 5766 . 5785 . 5785
Gages for e	gages	LO, classes 1A and 2A NOT GO, class 3A	Piteh diameter	Minus toler- ance gage	7	in. 5245 5242 5242 . 5268	. 5303 . 5325 . 5325 . 5322	. 5345 . 5342 . 5365 . 5362	. 5377 . 5374 . 5396 . 5393	. 5561 . 5558 . 5589 . 5586 . 5619 . 5616	. 5639 . 5636 . 5668	. 5782 . 5779 . 5808 . 5805	. 5802 . 5802 . 5828 . 5825 . 5825 . 5854	. 5869 . 5866 . 5893 . 5890
G	thread ring	Lo, el NOT		Plus toler- anee gage	9	in. . 5245 . 5248 . 5268 . 5261	. 5303 . 5306 . 5325 . 5328	. 5345 . 5348 . 5365 . 5368	. 5377 . 5380 . 5396 . 5399	. 5564 . 5589 . 5592 . 5619 . 5622	. 5639 . 5642 . 5668 . 5671	. 5782 . 5785 . 5808 . 5811	. 5808 . 5808 . 5828 . 5831 . 5834	. 5869 . 5893 . 5896
	X th	0,		Minor diam- eter	5	in. 5070 . 5065 . 5083 . 5078	. 5162 . 5157 . 5174 . 5169	. 5227 . 5222 . 5238 . 5233	. 5277 . 5272 . 5287 . 5282	. 5250 . 5244 . 5250 . 5244 . 5266 . 5266	. 5326 . 5326 . 5348 . 5342	. 5559 . 5553 . 5573 . 5567	. 5634 . 5629 . 5634 . 5629 . 5648	. 5695 . 5690 . 5708 . 5703
	GO GO Hitch Mi diam- diam- eter eter				4	in. .5287 .5284 .5300 .5297	. 5342 . 5339 . 5354 . 5351	. 5382 . 5379 . 5393 . 5390	. 5412 . 5409 . 5422 . 5419	. 5644 . 5644 . 5644 . 5661 . 5660	. 5693 . 5690 . 5709 . 5706	. 5830 . 5827 . 5844 . 5841	. 5875 . 5872 . 5872 . 5889 . 5889	. 5912 . 5909 . 5925 . 5922
	Class				9	2A 3A	2A 3A	2A 3A	2A 3A	1A 2A 3A	2A 3A	2A 3A	1A 2A 3A	2A 3A
	Series designa- tion				2	ΩN	UNEF	UN	UN	UNC	UN	UN	UNF	UN
		Nominal size and threads	per inch		1	9/6-20 or . 5625-20	9/16-24 or . 5625-24	9/16-28 or . 5625-28	%16-32 or . 5625-32	. 625-11	58-12 or . 625-12	58-16 or . 625-16	\$4-18 or . 625-18	58-20 or . 625-20

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54-24 or . 625-24	\$4-28 or . 625-28	58-32 or . 625-32	11/16-12 or . 6875-12	11/16-16 or . 6875-16	11/16-20 or . 6875-20	1)/6-24 or . 6875-24	17/6-28 or . 6875-28	1)16-32 or . 6875-32	34-10 or . 750-10	34-12 or . 750-12	34-16 or . 750-16	34–20 or . 750–20	34-28 or . 750-28	34-32 or . 750-32
UNEF	UN	UN	UN	ND	N D	UNEF	NU	ND	UNC	UN	UNF	UNEF	UN	Z D
2B 3B	1B 2B 3B	2B 3B	1B 2B 3B	2B 3B	2B 3B	2B 3B								
. 5899 . 5869 . 5868	. 5950 . 5949 . 5926 . 5925	. 5990 . 5989 . 5969 . 5968	. 6150 . 6149 . 6085 . 6084	. 6340 . 6339 . 6284 . 6283	. 6450 . 6449 . 6412 . 6411	. 6520 . 6519 . 6494 . 6493	. 6570 . 6569 . 6551 . 6550	. 6610 . 6609 . 6594 . 6593	. 6630 . 6629 . 6630 . 6629 . 6545	. 6780 . 6779 . 6707 . 6706	. 6960 . 6959 . 6950 . 6959 . 6908	. 7070 . 7069 . 7037 . 7036	. 7200 . 7199 . 7176	. 7240 . 7239 . 7219
. 5800 . 5801 . 5801	. 5860 . 5861 . 5860 . 5861	. 5910 . 5911 . 5910 . 5911	. 5970 . 5971 . 5970 . 5971	.6200 .6201 .6200 .6201	. 6330 . 6331 . 6330 . 6331	. 6420 . 6421 . 6420 . 6421	. 6490 . 6491 . 6490 . 6491	. 6540 . 6541 . 6540 . 6541	. 6420 . 6421 . 6421 . 6420 . 6420 . 6420	.6600	. 6820 . 6821 . 6820 . 6821 . 6821	. 6960 . 6961 . 6960 . 6961	. 7110 . 7111 . 71110 . 71110	. 7160 . 7161 . 7160 . 7161
. 6031 . 6034 . 6018	. 6067 . 6070 . 6055 . 6058	. 6098 . 6096 . 6082 . 6085	.6405 .6408 .6387 .6390	. 6531 . 6534 . 6515 . 6518	. 6606 . 6609 . 6592 . 6595	6656 . 6659 . 6643 . 6646	. 6692 . 6695 . 6680 . 6683	.6718 .6721 .6707 .6710	. 6965 . 6968 . 6927 . 6930 . 6907	. 7031 . 7034 . 7013 . 7016	7192 7159 7159 7162 7143	. 7232 . 7235 . 7218 . 7221	. 7318 . 7321 . 7305 . 7308	. 7344 . 7347 . 7336
. 6031 . 6028 . 6018 . 6015	. 6067 . 6064 . 6055 . 6052	. 6093 . 6090 . 6082 . 6079	. 6405 . 6402 . 6387 . 6384	. 6531 . 6528 . 6515 . 6512	. 6606 . 6603 . 6592 . 6589	. 6656 . 6653 . 6643 . 6640	. 6692 . 6689 . 6680 . 6677	. 6718 . 6715 . 6707 . 6704	. 6965 . 6962 . 6927 . 6924 . 6907	. 7031 . 7028 . 7013 . 7010	7192 7189 7159 7156 7143	. 7232 . 7229 . 7218 . 7215	. 7318 . 7315 . 7305	. 7344 7341 . 7333 . 7330
. 6206 . 6206 . 6198 . 6193	. 6222 . 6217 . 6210 . 6205	. 6228 . 6223 . 6217 . 6212	. 6766 . 6760 . 6748 . 6742	. 6802 . 6796 . 6786 . 6780	. 6823 . 6818 . 6809 . 6804	. 6836 . 6831 . 6823 . 6818	.6842 .6842 .6835 .6830	. 6853 . 6848 . 6842 . 6837	. 7398 . 7392 . 7360 . 7354 . 7340	. 7392 . 7386 . 7374 . 7368	7463 7457 7424 7424 7414	. 7449 . 7444 . 7435 . 7430	. 7473 . 7468 . 7460 . 7455	. 7479 . 7474 . 7468 . 7463
. 5979 . 5982 . 5879 . 5982	. 6021 . 6021 . 6021 . 6021	. 6047 . 6050 . 6047 . 6050	. 6334 . 6337 . 6334 . 6337	. 6469 . 6472 . 6469 . 6472	. 6550 . 6553 . 6550 . 6550	. 6604 . 6607 . 6604 . 6607	. 6648 . 6646 . 6643 . 6646	. 6672 . 6675 . 6672 . 6675	. 6850 . 6853 . 6853 . 6853 . 6853 . 6853	. 6959 . 6962 . 6959 . 6962	7094 7097 7094 7097 7094	7175 7178 7177 7175	. 7268 . 7271 . 7268 . 7271	. 7297 . 7300 . 7297 . 7300
. 6255 . 6255 . 6250 . 6255	. 6250 . 6255 . 6250 . 6250	. 6250 . 6255 . 6250 . 6250	. 6875 . 6881 . 6875 . 6881	. 6875 . 6881 . 6875 . 6881	. 6875 . 6880 . 6875 . 6880	. 7500 . 7506 . 7500 . 7500 . 7500 . 7500	. 7500 . 7506 . 7506 . 7506	. 7500 . 7500 . 7500 . 7506 . 7506 . 7506	. 7500 . 7505 . 7506 . 7505	. 7500 . 7505 . 7506 . 7505	. 7500 . 7505 . 7500 . 7500			
									7288					
. 6166 . 6167 . 6178 . 6179	. 6174 . 6175 . 6185 . 6186	. 6179 . 6180 . 6190 . 6191	. 6745 . 6746 . 6761 . 6762	. 6767 . 6768 . 6781 . 6782	. 6781 . 6782 . 6794 . 6795	. 6791 . 6792 . 6803 . 6804	. 6800 . 6800 . 6810 . 6811	.6804 .6805 .6815 .6816	7288 7289 7353 7354 7371	. 7369 . 7370 . 7386 . 7387	. 7343 . 7344 . 7391 . 7392 . 7406 . 7407	. 7406 . 7407 . 7419 . 7420	. 7423 . 7434 . 7435 7436	. 7429 . 7430 . 7440 . 7441
.6238 .6237 .6250 .6249	. 6239 . 6250 . 6250	.6239 .6238 .0250 .6249	. 6859 . 6858 . 6875 . 6874	. 6861 . 6860 . 6875 . 6874	. 6862 . 6861 . 6875 . 6874	. 6863 . 6862 . 6875 . 6874	. 6864 . 6863 . 6875 . 6874	. 6864 . 6863 . 6875 . 6874	. 7482 . 7481 . 7481 . 7500 . 7499	. 7483 . 7482 . 7500 . 7499	7485 7485 7485 7484 7500 7499	. 7487 . 7486 . 7500 . 7499	. 7488 . 7487 . 7500 . 7499	. 7489 . 7488 . 7500 . 7499
.5837 .5842 .5859 .5864	. 5892 . 5897 . 5913 . 5918	. 5932 . 5937 . 5952 . 5957	. 6084 . 6090 . 6113	. 6272 . 6278 . 6298 . 6304	. 6386 . 6391 . 6410 . 6415	. 6462 . 6467 . 6484 . 6489	. 6522 . 6538 . 6538	. 6557 . 6562 . 6577 . 6582	. 6528 . 6534 . 6557 . 6563 . 6590	. 6707 . 6713 . 6738 . 6744	. 6869 . 6875 . 6894 . 6900 . 6921	. 7010 . 7015 . 7034 . 7139	. 7141 . 7146 . 7162	. 7182 . 7187 . 7202 . 7207
. 5927 . 5924 . 5946	. 5969 . 5966 . 5990 . 5987	. 6000 . 5997 . 6020 . 6017	. 6264 . 6261 . 6293 . 6290	. 6404 . 6433 . 6430	. 6494 . 6491 . 6518 . 6515	. 6552 . 6549 . 6574 . 6571	. 6594 . 6591 . 6615 . 6612	. 6625 . 6622 . 6645 . 6642	. 6744 . 6741 . 6773 . 6770 . 6806 . 6803	. 6887 . 6884 . 6918 . 6915	. 7004 . 7001 . 7029 . 7026 . 7056	. 7118 . 7115 . 7142 . 7039	. 7218 . 7215 . 7239 . 7236	. 7250 . 7247 . 7270 . 7267
. 5927 . 5930 . 5949 . 5952	. 5969 . 5972 . 5990 . 5993	. 6000 . 6003 . 6020 . 6023	. 6267 . 6267 . 6293 . 6296	. 6407 . 6410 . 6433 . 6436	. 6494 . 6497 . 6518 . 6521	. 6552 . 6555 . 6574 . 6577	. 6594 . 6597 . 6615 . 6618	. 6625 . 6628 . 6645 . 6648	. 6744 . 6747 . 6773 . 6776 . 6806 . 6809	. 6887 . 6890 . 6918 . 6921	7004 7007 7029 7032 7056	. 7118 . 7121 . 7142 . 7145	. 7218 . 7221 . 7239 . 7242	. 7250 . 7253 . 7270 . 7273
. 5787 . 5782 . 5799	. 5852 . 5847 . 5863 . 5858	. 5901 . 5896 . 5912 . 5907	. 5957 . 5951 . 5973 . 5967	.6184 .6178 .6198 .6192	. 6320 . 6315 . 6333 . 6328	.6412 .6407 .6424 .6424	. 6477 . 6472 . 6488 . 6483	. 6526 . 6521 . 6537 . 6532	.6399 .6393 .6399 .6393 .6417 .6417	. 6581 . 6575 . 6598 . 6592	.6808 .6802 .6803 .6803 .6823	. 6945 . 6940 . 6958 . 6953	. 7101 . 7096 . 7113 . 7108	. 7151 . 7146 . 7162 . 7157
. 5967 . 5964 . 5979 . 5976	. 6007 . 6018 . 6015	. 6036 . 6033 . 6047 . 6044	. 6318 . 6315 . 6334 . 6331	. 6455 . 6452 . 6469 . 6466	. 6537 . 6534 . 6550 . 6547	. 6592 . 6589 . 6604 . 6601	. 6632 . 6629 . 6643 . 6640	. 6658 . 6672 . 6672 . 6669	. 6832 . 6832 . 6832 . 6829 . 6850	. 6942 . 6939 . 6959 . 6956	. 7079 . 7076 . 7079 . 7094 . 7091	. 7162 . 7159 . 7175	. 7256 . 7253 . 7268 . 7265	. 7286 . 7283 . 7297 . 7294
2A 3A	1A 2A 3A	2.A 3.A	1A 2A 3A	2A 3A	2A 3A	2A 3A								
UNEF	ND	ND	ND	ND	ND	UNEF	UN	UN	UNC	ND	UNF	UNEF	UN	ND
58–24 or . 625–24	54-28 or . 625-28	\$4-32 or . 625-32	11/16-12 or . 6875-12	11/16-16 or . 6875-16	11/16-20 or . 6875-20	11/16-24 or . 6875-24	11/16-28 or . 6875-28	11/16-32 or . 6875-32	34-10 or . 750-10	34-12 or . 750-12	34-16 or . 750-16	34-20 or . 750-20	34–28 or . 750–28	34–32 or . 750–32

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TABLE III.1

		Nominal size and threads	perineh		21	13/6-12 or . 8125-12	13/6-16 or . 8125-16	13/6-20 or . 8125-20	13/16-28 or . 8125-28	13/46-32 or . 8125-32	76–9 or . 875–9	%-12 or . 875-12	78–14 or . 875-14	78-16 or .875-16	78–20 or . 875–20
		Scries designa- tion			20	UN	UN	UNEF	ND	ND	UNC	UN	UNF	UN	UNEF
		Class			19	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	1B 2B 3B	2B 3B	1B 2B 3B	2B 3B	2B 3B
	Z plain plug gages for minor diameter		NoT		18	in. 7400 7399 7329	. 7590 . 7589 . 7533 . 7532	. 7700 . 7699 . 7662 . 7661	. 7820 . 7819 . 7801 . 7800	. 7860 . 7859 . 7844 . 7843	. 77800 . 77788 . 77800 . 77788 . 76810	. 80300 . 80288 . 79520 . 79508	. 81400 . 81388 . 81400 . 81388 . 80680	. 82100 . 82088 . 81580	. 83200 . 83188 . 82870 . 82858
	Z plain p for minor		GO		17	in. 7220 7221 7221 7220	. 7450 . 7451 . 7450 . 7451	. 7580 . 7581 . 7580 . 7581	. 7740 . 7741 . 7740 . 7741	. 7790 . 7791 . 7790	. 75500 . 75512 . 75500 . 75512 . 75512	. 78500 . 78512 . 78500 . 78512	. 79800 . 79812 . 79800 . 79812 . 79800	.80700 .80712 .80700	. 82100 . 82112 . 82100 . 82112
threads			Pitch diameter	Plus toler- ance gage	16	in. . 7656 . 7659 . 7638 . 7641	. 7782 . 7785 . 7766 . 7769	. 7857 . 7860 . 7843 . 7846	. 7943 . 7946 . 7930 . 7933	. 7969 . 7972 . 7958 . 7958	.8151 .8154 .8110 .8113 .8089 .8092	. 8284 . 8284 . 8263 . 8266	8392 8395 8356 8359 8339 8342	. 8407 . 8410 . 8391	. 8482 . 8468 . 8471
Gages for internal threads	gages	liI	Pitch d	Minus toler- ance gage	15	in. .7656 .7653 .7638 .7635	. 7782 . 7779 . 7766 . 7763	. 7854 . 7854 . 7843 . 7840	. 7943 . 7940 . 7930 . 7927	. 7969 . 7966 . 7958 . 7955	.8151 .8148 .8110 .8107 .8089	8281 .8278 .8263 .8260	83.95 83.89 83.85 83.83 83 83 83 83.83 83 83 83 83 83 83 83 83 83 83 83 83 8	. 8407 . 8404 . 8391 . 8388	.8482 .8479 .8468 .8465
Jages for	thread plug			Major diam- eter	14	in. .8017 .8011 .7999 .7993	. 8053 . 8047 . 8037 . 8031	. 8074 . 8069 . 8060	. 8098 . 8093 . 8085 . 8080	. 8099 . 8093 . 8083	. 8632 . 8625 . 8591 . 8584 . 8570 . 8563	. 8642 . 8636 . 8624 . 8618	.8695 .8695 .8655 .8659 .8648	. 8678 . 8672 . 8662 . 8656	. 8699 . 8685 . 8680
	X thr	GO Major Pitc diam- diam- eter cte			13	in. . 7584 . 7587 . 7584 . 7587	. 7719 . 7722 . 7719 . 7722	. 7800 . 7803 . 7803	. 7893 . 7896 . 7893 . 7896	. 7922 . 7925 . 7922 . 7922	. 8028 . 8031 . 8028 . 8031 . 8028 . 8031	. 8212 . 8209 . 8209	. 8286 . 8289 . 8286 . 8289 . 8286	.8344 .8347 .8344 .8374	. 8425 . 8425 . 8425 . 8428
		GG Major diam- eter			12	in. .8125 .8131 .8131 .8125	. 8125 . 8131 . 8125 . 8131	. 8125 . 8130 . 8125 . 8130	. 8125 . 8130 . 8125 . 8130	. 8125 . 8130 . 8125 . 8125	. 8750 . 8757 . 8750 . 8757 . 8757 . 8750	. 8750 . 8756 . 8750 . 8750	. 8750 . 8756 . 8750 . 8756 . 8756	. 8750 . 8756 . 8750 . 8750	. 8750 . 8755 . 8750 . 8755
	or major	for major GO GC Un- funished diam- rolled eter			11	in.					. 85230				
	ing gages f diameter	NOT		Semi- finished	10	in. 7994 7995 8011	. 8016 . 8017 . 8031 . 8032	. 8031 . 8032 . 8044 . 8045	. 8048 . 8049 . 8060	. 8054 . 8055 . 8065 . 8066	. 85230 . 85242 . 85920 . 85932 . 86110	. 86202 . 86360 . 86372	. 85790 . 85802 . 86310 . 86322 . 86470	. 86410 . 86422 . 86560 . 86572	. 86560 . 86572 . 86690 . 86702
eads	Z plain ri		Ç		6	in. .8108 .8107 .8125	. 8109 . 8125 . 8124	.8112 .8111 .8125 .8124	.8113 .8112 .8125 .8125	.8114 .8113 .8125 .8124	.87310 .87298 .87310 .87298 .87298 .87500	.87330 .87318 .87500 .87488	.87340 .87328 .87328 .87328 .87328	. 87350 . 87338 . 87500 . 87488	. 87370 . 87358 . 87500 . 87488
Gages for external threads		nd 2A s 3A		Minor diam- eter	00	in . .7332 .7338 .7363	. 7520 . 7526 . 7548 . 7554	. 7635 . 7640 . 7659 . 7664	. 7766 . 7771 . 7787 . 7792	. 7807 . 7812 . 7827 . 7832	. 7673 . 7680 . 7705 . 7712 . 7740	. 7957 . 7963 . 7988 . 7994	.8034 .8040 .8061 .8067 .8090	. 8145 . 8151 . 8173 . 8173	. 8260 . 8265 . 8284 . 8289
es for ext	gages	sscs 1A and 2A GO, class 3A	ameter	Minus toler- ance gage	-1	in. 7512 7509 7543	. 7655 . 7652 . 7683 . 7680	. 7743 . 7740 . 7767 . 7764	. 7843 . 7840 . 7864 . 7861	. 7875 . 7872 . 7895 . 7895	7914 7911 7946 7943 7981	.8137 .8134 .8168	. 8186 . 8186 . 8216 . 8213 . 8245	. 8280 . 8277 . 8308	. 8368 . 8365 . 8392 . 8389
Gag	thread ring g	LO, classes NOT GO	Pitch dia	Plus toler- anee gage	9	in. 7512 7515 7515 7543	.7655 .7658 .7683 .7686	. 7743 . 7746 . 7767	. 7848 . 7846 . 7864 . 7867	. 7875 . 7878 . 7895 . 7898	. 7914 . 7917 . 7946 . 7949 . 7981	.8137 .8140 .8168	.8192 .8192 .8216 .8219 .8245	. 8280 . 8283 . 8308	. 8368 . 8371 . 8392 . 8395
	X thre			Minor diam- eter	22	in. 7206 7200 7223	. 7433 . 7427 . 7448	. 7570 . 7565 . 7583 . 7578	. 7726 . 7721 . 7738	. 7776 . 7771 . 7787	. 7528 . 7521 . 7528 . 7521 . 7547 . 7540	. 7831 . 7825 . 7848 . 7842	. 7961 . 7955 . 7961 . 7955 . 7977	8058 8052 8073 8073	.8195 .8208 .8203
	GO GO Pitch Mino diameter eter			Pitch diam- eter	4	in. .7567 .7564 .7584 .7584	. 7704 . 7701 . 7719 . 7716	. 7787 . 7784 . 7800 . 7797	. 7881 . 7878 . 7893 . 7890	. 7911 . 7908 . 7922 . 7919	8009 8009 8009 8008 8008 8052	. 8192 . 8189 . 8209	. 8270 . 8270 . 8270 . 8267 . 8286 . 8286	. 8326 . 8326 . 8344 . 8344	. 8412 . 8409 . 8425 . 8422
	Class High dia dia et et et			8	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	1A 2A 3A	2A 3A	1A 2A 3A	2A 3A	2A 3A	
	Series designa- tion				2	ND	UN	UNEF	UN	UN	UNC	UN	UNF	ND	UNEF
		Nominal size and	threads per inch		1	13/6-12 or .8125-12	1376-16 or . 8125-16	13/16-20 or . 8125-20	13/6-28 or . 8125-28	13/6-32 or . 8125-32	7.8-9 or	78-12 or . 875-12	7,8–14 or . 87,5–14	78-16 or . 875-16	78-20 or . 875-20

7,8-28 or . 875-28	78-32 or . 875-32	15/46-12 or . 9375-12	15/46-16 or . 9375-16	15/16-20 or . 9375-20	15/16-28 or . 9375-28	15/16-32 or . 9375-32	1-8 or 1, 000-8	1-12 or 1. 000-12	1-16 or 1.000-16	1-20 or 1. 000-20	1.000-28	1-32 or 1. 000-32	17/6-8 or 1. 0625-8	11,16-12 or
UN	UN	UN	UN	UNEF	UN	UN	UNC	UNF	UN	UNEF	UN	UN	UN	UN
2B 3B	1B 2B 3B	1B 2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B						
. 84500 . 84488 . 84260 . 84248	. 84900 . 84888 . 84690 . 84678	. 86500 . 86488 . 85750 . 85738	. 88400 . 88388 . 87830 . 87818	. 89500 . 89120 . 89108	. 90700 . 90688 . 90510 . 90498	. 91100 . 91088 . 90940 . 90928	. 89000 . 88988 . 89000 . 87970 . 87958	. 92800 . 92788 . 92788 . 92788 . 91980	. 94600 . 94588 . 94080 . 94068	. 95700 . 95688 . 95370 . 95358	. 97000 . 96988 . 96760 . 96748	. 97400 . 97388 . 97190 . 97178	. 95200 . 95188 . 94220 . 94208	. 98988 . 98988 . 98230 . 98218
. 83600 . 83612 . 83600 . 83612	.84100 .84112 .84100 .84112	.84700 .84712 .84700 .84712	.87000 .87012 .87000 .87012	.88300 .88312 .88300 .88312	. 89900 . 89912 . 89900 . 89912	. 90400 . 90412 . 90400 . 90412	.86500 .86512 .86500 .86512 .86512	. 91000 . 91012 . 91000 . 91012 . 91000	. 93200 . 93212 . 93200 . 93212	. 94600 . 94612 . 94600 . 94612	. 96100 . 96112 . 96100 . 96112	. 96600 . 96612 . 96600 . 96612	. 92700 . 92712 . 92700 . 92712	. 97200 . 97212 . 97200 . 97212
. 8568 . 8571 . 8555	. 8594 . 8597 . 8583 . 8586	. 8908 . 8911 . 8889 . 8892	. 9034 . 9037 . 9018 . 9021	. 9109 . 9112 . 9094 . 9097	. 9195 . 9198 . 9182 . 9185	. 9221 . 9224 . 9209 . 9212	9320 9324 9276 9276 9280 9254	. 9573 . 9576 . 9535 . 9538 . 9516 . 9516	. 9659 . 9662 . 9643	. 9734 . 9737 . 9719 . 9722	. 9820 . 982 3 . 9807 . 9810	. 9846 . 9849 . 9834 . 9837	. 9902 . 9906 . 9880 . 9884	1. 0158 1. 0161 1. 0139 1. 0142
. 8568 . 8565 . 8555	. 8594 . 8591 . 8583 . 8580	.8908 .8889 .8889	. 9034 . 9031 . 9018 . 9015	. 9109 . 9106 . 9094 . 9091	. 9195 . 9192 . 9182 . 9179	. 9221 . 9218 . 9209 . 9206	. 9320 . 9316 . 9276 . 9272 . 9254	. 9573 . 9570 . 9535 . 9532 . 9516	. 9659 . 9656 . 9643 . 9640	. 9734 . 9731 . 9719 . 9716	. 9820 . 9817 . 9807 . 9804	. 9846 . 9843 . 9834 . 9831	. 9902 . 9898 . 9880 . 9876	1. 0158 1. 0155 1. 0139 1. 0136
. 8723 . 8718 . 8710 . 8705	. 8729 . 8724 . 8718 . 8713	. 9269 . 9263 . 9250 . 9244	. 9305 . 9299 . 9289 . 9283	. 9326 . 9321 . 9311 . 9306	. 9350 . 9315 . 9337 . 9332	. 9356 . 9351 . 9344 . 9339	. 9861 . 9854 . 9817 . 9810 . 9795	. 9934 . 9928 . 9896 . 9890 . 9877	. 9930 . 9924 . 9914 . 9908	. 9951 . 9946 . 9936 . 9931	. 9975 . 9962 . 9962 . 9957	. 9981 . 9976 . 9969 . 9964	1.0443 1.0436 1.0421 1.0414	1. 0519 1. 0513 1. 0500 1. 0494
. 8518 . 8521 . 8518 . 8518	. 8547 . 8550 . 8547 . 8550	. 8834 . 8837 . 8834 . 8837	. 8969 . 8972 . 8969 . 8972	. 9050 . 9053 . 9050 . 9053	. 9143 . 9146 . 9143 . 9146	. 9172 . 9175 . 9172 . 9172	. 9188 . 9182 . 9182 . 9182 . 9183 . 9183	. 9459 . 9462 . 9459 . 9462 . 9462 . 9462	. 9594 . 9597 . 9594 . 9597	. 9675 . 9678 . 9675 . 9678	. 9768 . 9771 . 9768 . 9761	. 9797 . 9800 . 9797 . 9800	. 9813 . 9817 . 9813 . 9813	$\begin{array}{c} 1.0084 \\ 1.0087 \\ 1.0084 \\ 1.0087 \\ \end{array}$
. 8750 . 8755 . 8750 . 8750	. 8750 . 8755 . 8750 . 8750	. 9375 . 9381 . 9375 . 9381	. 9375 . 9381 . 9375 . 9381	. 9375 . 9380 . 9375 . 9380	. 9375 . 9380 . 9375 . 9380	. 9375 . 9380 . 9375 . 9380	1. 0000 1. 0007 1. 0000 1. 0007 1. 0000 1. 0007	1. 9000 1. 9000 1. 9000 1. 9000 1. 9000 1. 9000	1.0006 1.0006 1.0006 1.0006	1.0000 1.0005 1.0000 1.0005	1. 0000 1. 0005 1. 0006 1. 0005	1.0000 1.0005 1.0000 1.0005	1. 0625 1. 0632 1. 0625 1. 0632	1.0625 1.0631 1.0625 1.0631
							. 97550							
. 86730 . 86742 . 86850 . 86862	. 86790 . 86802 . 86900 . 86912	. 92440 . 92452 . 92610 . 92622	. 92660 . 92672 . 92810 . 92822	. 92800 . 92812 . 92940 . 92952	. 92980 . 92992 . 93100 . 93112	. 93040 . 93052 . 93150 . 93162	. 97550 . 97562 . 98300 . 98312 . 98500	. 98100 . 98112 . 98680 . 98692 . 98860 . 98860	. 98910 . 98922 . 99060 . 99072	. 99050 . 99062 . 99190 . 99202	. 99230 . 99242 . 99350 . 99362	. 99290 . 99302 . 99400 . 99412	1. 04550 1. 04562 1. 04750 1. 04762	1. 04940 1. 04952 1. 05110 1. 05122
. 87380 . 87368 . 87500	. 87390 . 87378 . 87500 . 87488	. 93580 . 93568 . 93750 . 93738	. 93600 . 93588 . 93750 . 93738	. 93610 . 93598 . 93750 . 53738	. 93630 . 93618 . 93750 . 93738	. 93640 . 93628 . 93750 . 93738	. 99800 . 99788 . 99800 . 99788 1. 00000	. 99820 . 99808 . 99820 . 99808 1. 00000	. 99850 . 99838 1. 00000	. 99860 . 99848 1. 00000 . 99988	. 99880 . 99868 1. 00000 . 99988	. 99890 . 99878 1. 00000 . 99988	1. 06050 1. 06038 1. 06250 1. 06238	1.06080 1.06068 1.06250 1.06238
. 8396 . 8412 . 8417	. 8432 . 8437 . 8452 . 8457	. 8580 . 8586 . 8612 . 8618	. 8769 . 8775 . 8797 . 8803	.8888 .8908 .8913	. 9014 . 9036 . 9041	. 9055 . 9060 . 9076 . 9081	. 8829 . 8836 . 8836 . 8836 . 8836	9173 9179 9202 9208 9235 9235	. 9394 . 9400 . 9422 . 9428	. 9508 . 9513 . 9533 . 9538	. 9639 . 9644 . 9661	. 9680 . 9685 . 9701 . 9706	. 9454 . 9461 . 9491 . 9498	. 9830 . 9836 . 9862 . 9868
. 8468 . 8465 . 8489 . 8486	.8500 .8497 .8520 .8517	. 8760 . 8757 . 8792 . 8789	. 8904 . 8932 . 8929	. 8991 . 9016 . 9013	. 9091 . 9088 . 9113 . 9110	. 9123 . 9120 . 9144 . 9141	. 9067 . 9063 . 9100 . 9096 . 9137 . 9133	. 9353 . 9350 . 9382 . 9379 . 9415	. 9529 . 9526 . 9557 . 9554	. 9616 . 9613 . 9641 . 9638	. 9716 . 9713 . 9738 . 9735	. 9748 . 9745 . 9769 . 9766	. 9725 . 9721 . 9762 . 9758	1.0010 1.0007 1.0042 1.0039
. 8468 . 8471 . 8489	. 8500 . 8520 . 8520 . 8523	.8760 .8763 .8792 .8795	.8904 .8907 .8932 .8935	.8994 .9016 .9019	. 9091 . 9094 . 9118	. 9123 . 9126 . 9144 . 9147	. 9067 . 9071 . 9100 . 9104 . 9137 . 9137	. 9353 . 9356 . 9382 . 9385 . 9415	. 9529 . 9532 . 9557 . 9560	. 9616 . 9619 . 9641	. 9716 . 9719 . 9738 . 9741	. 9748 . 9751 . 9769 . 9772	. 9725 . 9729 . 9762 . 9766	1, 0010 1, 0013 1, 0042 1, 0045
. 8346 . 8346 . 8363	.8401 .8396 .8412 .8407	. 8456 . 8450 . 8173 . 8467	.8683 .8677 .8698 .8692	.8814 .8833 .8833	.8976 .8971 .8988 .8983	. 9026 . 9021 . 9037		. 9080 . 9074 . 9080 . 9074 . 9098	. 9308 . 9302 . 9323	. 9444 . 9439 . 9458	. 9601 . 9596 . 9613	. 9651 . 9646 . 9662 . 9657	. 9252 . 9245 . 9272 . 9265	. 9706 . 9700 . 9723 . 9717
. 8506 . 8503 . 8518	. 8536 . 8533 . 8547 . 8544	.8817 .8814 .8834 .8831	. 8954 . 8951 . 8969	. 9036 . 9033 . 9050 . 9047	. 9131 . 9128 . 9143	. 9161 . 9158 . 9172 . 9169	. 9168 . 9164 . 9164 . 9164 . 9188	. 9441 . 9438 . 9441 . 9438 . 9459	. 9579 . 9576 . 9594 . 9591	. 9661 . 9658 . 9675	. 9756 . 9753 . 9768	. 9786 . 9797 . 9794	. 9793 . 9789 . 9813 . 9809	1.0067 1.0064 1.0084 1.0081
23.A 3.3.	2A 3A	2A 3.A	2.A 3.A	2A 3A	2A 3A	2A 3A	1A 2A 3A	1A 2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A
ND	UN	UN	NU	UNEF	UN	UN	UNC	UNF	UN	UNEF	UN	UN	NO	ND
7,8-28 or 875-28	76-32 or 875-32	15/16-12 or . 9375-12	15/6-16 or . 9375-16	1516-20 or . 9375-20	15/6-28 or . 9375-28	15/16-32 or . 9375-32	1.000-8	1-12 or 1, 000-12	1-16 or 1.000-16	1.000-20	1.000-28	1-32 or 1.000-32	1 / 16-8 or 1.0625-8	11/4e-12 or 1. 0625-12

Table III.12.—Gages for standard thread series, Unified screw threads—Continued

		Nominal size and	perinch		21	1½6~16 or 1.0625~16	1 ½ 6–18 or 1. 0625–18	1.0625-20 or	1½6-28 or 1.0625-28	1,125-7 or	174-8 or 1.125-8	1,4-12 or	13/8-16 or 1. 125-16	13/6-18 or 1. 125-18	17,8-20 or 1.125-20
		Series	tion		20	ND	UNEF	UN	UN	UNC	UN	UNF	UN	UNEF	ND
		Class			19	2B 3B	2B 3B	2B 3B	2B 3B	1B 2B 3B	2B 3B	1B 2B 3B	2B 3B	2B 3B	2B 3B
	Z plain plug gates for minor diameter		LON		18	in. 1.00900 1.00888 1.00330 1.00318	1. 01500 1. 01488 1. 01050 1. 01038	1, 02000 1, 01988 1, 01620 1, 01608	1. 03200 1. 03188 1. 03010 1. 02998	. 99800 . 99788 . 99788 . 98750 . 98738	1.01500 1.01488 1.00470 1.00458	1.05300 1.05288 1.05300 1.05288 1.04480	1. 07100 1. 07088 1. 06580 1. 06568	1. 07800 1. 07788 1. 07300 1. 07288	1. 08200 1. 08188 1. 07870 1. 07858
85	Z płain p for minor		GO		17	im. 99500 . 99512 . 99500 . 99512	1. 00200 1. 00212 1. 00200 1. 00212	1.00800 1.00812 1.00800 1.00812	1. 02400 1. 02412 1. 02400 1. 02412	. 97000 . 97012 . 97000 . 97012 . 97012	. 99000 . 99012 . 99000 . 99012	1.03500 1.03512 1.03500 1.03512 1.03512 1.03512	1. 05700 1. 05712 1. 05700 1. 05712	1.06500 1.06512 1.06512 1.06512	1. 07100 1. 07112 1. 07100 1. 07112
Gages for internal threads			Pitch diameter	Plus toler- ance gage	16	in. 1. 0284 1. 0287 1. 0268 1. 0271	1. 0326 1. 0329 1. 0310 1. 0313	1. 0359 1. 0362 1. 0344 1. 0347	1.0445 1.0448 1.0432 1.0435	1. 0463 1. 0467 1. 0416 1. 0420 1. 0393 1. 0397	1.0528 1.0532 1.0505 1.0509	1. 0826 1. 0829 1. 0787 1. 0790 1. 0768 1. 0771	1.0909 1.0912 1.0893 1.0896	1.0951 1.0954 1.0935 1.0938	1.0984 1.0987 1.0969 1.0972
or intern	gages	III	Pitch d	Minus toler- ance gage	15	in. 1. 0284 1. 0281 1. 0268 1. 0265	1. 0326 1. 0323 1. 0310 1. 0307	1.0359 1.0356 1.0344 1.0341	1.0445 1.0442 1.0432 1.0429	1.0463 1.0459 1.0416 1.0412 1.0393 1.0389	1. 0528 1. 0524 1. 0505 1. 0501	1.0826 1.0823 1.0787 1.0784 1.0768 1.0765	1.0909 1.0906 1.0893 1.0890	1.0951 1.0948 1.0935 1.0932	1. 0984 1. 0981 1. 0969 1. 0966
Gages f	GO GO High Major Jun- diam- diam- eter eter eter			Major diam- eter	14	in. 1.0555 1.0549 1.0539 1.0533	1.0567 1.0562 1.0551 1.0546	1.0576 1.0571 1.0551 1.0561	1.0690 1.0595 1.0587 1.0582	1. 1082 1. 1075 1. 1035 1. 1028 1. 1012 1. 1005	1. 1669 1. 1062 1. 1046 1. 1039	1.1187 1.1181 1.1148 1.1142 1.1129 1.1123	1.1180 1.1174 1.1164 1.1158	1.1192 1.1187 1.1176 1.1171	1.1201 1.1196 1.1186 1.1181
	A three			Pitch diam- eter	13	in. 1. 0219 1. 0222 1. 0222 1. 0222	1. 0264 1. 0267 1. 0264 1. 0264	1. 0300 1. 0303 1. 0300 1. 0303	1. 0393 1. 0396 1. 0393 1. 0396	1. 0322 1. 0326 1. 0326 1. 0326 1. 0322 1. 0326	1.0438 1.0442 1.0438 1.0438	1. 0709 1. 0712 1. 0709 1. 0712 1. 0712	1.0844 1.0847 1.0844 1.0847	1.0889 1.0889 1.0889 1.0892	1. 0925 1. 0928 1. 0925 1. 0928
		Ö		Major diam- eter	12	in. 1. 0625 1. 0631 1. 0625 1. 0631	1. 0625 1. 0630 1. 0625 1. 0630	1. 0625 1. 0630 1. 0625 1. 0630	1.0625 1.0630 1.0625 1.0625 1.0630	1. 1250 1. 1257 1. 1250 1. 1257 1. 1250 1. 1250	1. 1250 1. 1257 1. 1250 1. 1250	1. 1259 1. 1256 1. 1250 1. 1256 1. 1256 1. 1256	1. 1250 1. 1256 1. 1250 1. 1256	1. 1250 1. 1255 1. 1250 1. 1255	1.1250 1.1255 1.1250 1.1250
	or major	r 60	Un-	finished hot- rolled material	11	in.				1.09832	1.10040				
	plain ring gages for major diameter	NOT		Semi- finished	10	$\begin{array}{c} in. \\ 1.\ 05160 \\ 1.\ 05172 \\ 1.\ 05310 \\ 1.\ 05322 \end{array}$	1. 05240 1. 05252 1. 05380 1. 05392	1. 05300 1. 05312 1. 05440 1. 05452	1.05480 1.05492 1.05600 1.05612	1. 09820 1. 09832 1. 10640 1. 10652 1. 10800 1. 10872	1. 10790 1. 10802 1. 11000 1. 11012	1. 16600 1. 16612 1. 11180 1. 11192 1. 11360 1. 11372	1. 11410 1. 11422 1. 11560 1. 11572	1. 11490 1. 11592 1. 11630 1. 11642	1.11550 1.11562 1.11690 1.11702
reads	Z plain ri	09		6	$\begin{array}{c} in. \\ 1.\ 06100 \\ 1.\ 06088 \\ 1.\ 06250 \\ 1.\ 06238 \end{array}$	1. 06110 1. 06098 1. 06250 1. 06238	1. 06110 1. 06098 1. 06250 1. 06238	1.06130 1.66118 1.06250 1.06238	1, 12280 1, 12268 1, 12280 1, 12268 1, 12500 1, 12488	1.12290 1.12278 1.12500 1.12488	1. 12320 1. 12320 1. 12320 1. 12308 1. 12500 1. 12488	1.12350 1.12338 1.12500 1.12488	1. 12369 1. 12348 1. 12500 1. 12488	1.12369 1.12348 1.12500 1.12488	
for external threads		and 2A s 3A		Minor diam- eter	∞	in. 1. 0019 1. 0025 1. 0047 1. 0053	1.0083 1.0088 1.0108 1.0103	1.0133 1.0138 1.0158 1.0163	1.0264 1.0269 1.0286 1.0291	. 9882 . 9889 . 9919 . 9926 . 9959	1.0077 1.0084 1.0115 1.0122	1. 0421 1. 0427 1. 0451 1. 0457 1. 0484 1. 0490	1. 0644 1. 0650 1. 0672 1. 0678	1.0708 1.0713 1.0733 1.0738	1.0758 1.0763 1.0783 1.0788
ges	gages	asses 1A and 2A GO, class 3A	iameter	Minus toler- ance gage	7	in. 1. 0154 1. 0151 1. 0182 1. 0179	1. 0203 1. 0200 1. 0228 1. 0225	1. 0241 1. 0238 1. 0266 1. 0263	1. 0341 1. 0338 1. 0363 1. 0360	1.0191 1.0187 1.0228 1.0224 1.0268 1.0268	1. 0348 1. 0344 1. 0386 1. 0382	1.0601 1.0598 1.0631 1.6628 1.664 1.0661	1. 0779 1. 0776 1. 0807 1. 0804	1.0828 1.0825 1.0853 1.0850	1.0866 1.0863 1.0891 1.0888
Ga	X thread ring	LO, cla	Pitch d	Plus toler- ance gage	9	in. 1. 0154 1. 0157 1. 0182 1. 0185	1. 0203 1. 0206 1. 0228 1. 0231	1. 0241 1. 0244 1. 0266 1. 0269	1. 0341 1. 0344 1. 0363 1. 0366	1.0191 1.0195 1.0228 1.0232 1.0232 1.0268	1.0348 1.0352 1.6386 1.0390	1.0601 1.0604 1.0631 1.0634 1.0664 1.0667	1. 0779 1. 0782 1. 0807 1. 0810	1. 0828 1. 0831 1. 0853 1. 0856	1.0866 1.0869 1.0891 1.0894
	X th	0		Minor diam- eter	5	in. . 9933 . 9927 . 9948 . 9942	1,0009 1,0004 1,0023 1,0018	$\begin{array}{c} 1.0069 \\ 1.0064 \\ 1.0083 \\ 1.0078 \end{array}$	$\begin{array}{c} 1.0226 \\ 1.0221 \\ 1.0238 \\ 1.0233 \end{array}$. 9681 . 9674 . 9681 . 9674 . 9703	. 9876 . 9869 . 9897 . 9890	1.0330 1.0324 1.0330 1.0324 1.0348 1.0342	1.0558 1.0552 1.0573 1.0567	1.0634 1.0629 1.0648 1.0643	1.0694 1.0689 1.0708 1.0703
	GO Pitch M dlam- di eter e			Pitch diam- eter	4	$\begin{array}{c} in. \\ 1.\ 0204 \\ 1.\ 0201 \\ 1.\ 0219 \\ 1.\ 0216 \end{array}$	1. 0250 1. 0247 1. 0264 1. 0264	1. 0286 1. 0283 1. 0300 1. 0297	1.0381 1.0378 1.0393 1.0390	1. 0300 1. 0296 1. 0300 1. 0296 1. 0322 1. 0318	1.0417 1.0413 1.0438 1.0434	1.0691 1.0688 1.0691 1.0688 1.0709 1.0706	1. 0825 1. 0826 1. 0844 1. 0841	1,0875 1,0872 1,0889 1,0886	1.0911 1.0908 1.0925 1.0922
	Class				8	2A 3A	2A 3A	2A 3A	2A 3A	1A 2A 3A	2A 3A	1A 2A 3A	2A 3A	2A 3A	2A 3A
	Series designa- tion				2	UN	UNEF	UN	UN	UNC	UN	UNF	UN	UNEF	UN
		Nominal size and threads	per inch		1	1½6–16 or 1. 0625–16	1.0625-18	11/16-20 or 1.0625-20	1½ 6-28 or 1.0625-28	1) &=7 or 1. 125-7	1,125–8 or	1)/6-12 or 1. 125-12	1,125–16 or	1½-18 or 1. 125-18	1,125-20 or

1.125-28 or	13/ ₆ -8 or 1.1875-8	13/ ₆ -12 or	13/16-16 or 1.1875-16	13/16-18 or 1.1875-18	13/16-20 or 1.1875-20	13/16-28 or 1.1875-28	1)4-7 or 1. 250-7	1,250-8 or	1,250-12	1¼-16 or 1. 250-16	1,250-18	1,250-20	1)4-28 or 1. 250-28	15/16-8 or 1.3125-8
NO	ND	ND	UN	UNEF	ND	UN	UNC	UN	UNF	NO	UNEF	UN	ÜN	UN
2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	1B 2B 3B	2B 3B	1B 2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B
1. 09500 1. 09488 1. 09260 1. 09248	1.07700 1.07688 1.66720 1.66708	1.11500 1.11488 1.10730 1.10718	1, 13400 1, 13388 1, 12830 1, 12818	1.14000 1.13988 1.13550 1.13538	1.14500 1.14488 1.14120 1.14108	1.15700 1.15688 1.15510 1.15498	1.12300 1.12288 1.12300 1.12288 1.11250 1.11238	1.14000 1.13988 1.12970 1.12958	1.17800 1.17788 1.17800 1.17788 1.16980 1.16968	1.19600 1.19588 1.19080 1.19068	1, 20300 1, 20288 1, 19800 1, 19788	1, 20700 1, 20688 1, 20370 1, 20358	1. 22000 1. 21988 1. 21760 1. 21748	1. 20200 1. 20188 1. 19220 1. 19208
1. (8690 1. (8612 1. (8670 1. (8612	1. 05200 1. 05212 1. 05200 1. 05212	1. 09700 1. 09712 1. 09700 1. 09712	1. 12000 1. 12012 1. 12000 1. 12012	1. 12700 1. 12712 1. 12700 1. 12712	1.13300 1.13312 1.13300 1.13312	1.14900 1.14912 1.14900 1.14912	1. 09500 1. 09512 1. 09512 1. 09512 1. 09512 1. 09512	1.11500 1.11512 1.11500 1.11512	1. 16000 1. 16012 1. 16000 1. 16012 1. 16012 1. 16012	1.18200 1.18212 1.18200 1.18212	1.19000 1.19012 1.19000 1.19012	1. 19600 1. 19612 1. 19600 1. 19612	1. 21100 1. 21112 1. 21100 1. 21112	1. 17700 1. 17712 1. 17700 1. 17712
1. 1070 1. 1673 1. 1657 1. 1660	1. 1154 1. 1158 1. 1131 1. 1135	1, 1409 1, 1412 1, 1390 1, 1393	1.1535 1.1538 1.1519 1.1522	1.1577 1.1580 1.1561 1.1564	1.1611 1.1614 1.1595 1.1598	1.1696 1.1699 1.1683 1.1686	1.1716 1.1720 1.1668 1.1672 1.1644 1.1648	1. 1780 1. 1784 1. 1757 1. 1761	1. 2079 1. 2082 1. 2089 1. 2042 1. 2019 1. 2022	1, 2160 1, 2163 1, 2144 1, 2147	1. 2202 1. 2205 1. 2186 1. 2189	1. 2236 1. 2230 1. 2220 1. 2223	1. 2321 1. 2324 1. 2308 1. 2311	1. 2405 1. 2409 1. 2382 1. 2386
1. 1070 1. 1067 1. 1057 1. 1054	1.1154 1.1159 1.1131 1.1127	1.1409 1.1406 1.1390 1.1387	1, 1535 1, 1532 1, 1519 1, 1516	1.1577 1.1574 1.1561 1.1558	1.1611 1.1608 1.1595 1.1592	1.1696 1.1693 1.1683 1.1680	1.1716 1.1720 1.1668 1.1664 1.1644 1.1640	1.1780 1.1776 1.1757 1.1753	1. 2079 1. 2076 1. 2039 1. 2036 1. 2019 1. 2016	1.2160 1.2157 1.2144 1.2141	1, 2202 1, 2199 1, 2186 1, 2183	1, 2236 1, 2233 1, 2220 1, 2217	1. 2321 1. 2318 1. 2308 1. 2305	1. 2405 1. 2401 1. 2382 1. 2378
1. 1225 1. 1220 1. 1212 1. 1207	1.1695 1.1688 1.1672 1.1665	1.1770 1.1764 1.1751 1.1745	1.1806 1.1800 1.1790 1.1784	1.1818 1.1813 1.1802 1.1797	1.1828 1.1823 1.1812 1.1807	1.1851 1.1846 1.1838 1.1833	1. 2335 1. 2328 1. 2287 1. 2280 1. 2263 1. 2263	1, 2321 1, 2314 1, 2298 1, 2291	1, 2440 1, 2434 1, 2400 1, 2394 1, 2380 1, 2374	1. 2431 1. 2425 1. 2415 1. 2409	1. 2443 1. 2438 1. 2427 1. 2422	1.2453 1.2448 1.2437 1.2432	1. 2476 1. 2471 1. 2463 1. 2458	1. 2946 1. 2939 1. 2923 1. 2916
1. 1618 1. 1021 1. 1018 1. 1021	1.1063 1.1067 1.1063 1.1063 1.1067	1, 1334 1, 1337 1, 1334 1, 1337	1.1469 1.1472 1.1469 1.1469	1.1514 1.1517 1.1514 1.1514	1.1550 1.1553 1.1550 1.1553	1. 1643 1. 1646 1. 1643 1. 1646	1.1572 1.1576 1.1572 1.1572 1.1572 1.1573	1.1688 1.1692 1.1688 1.1692	1.1959 1.1962 1.1959 1.1962 1.1962 1.1962	1. 2094 1. 2097 1. 2094 1. 2097	1. 2139 1. 2142 1. 2139 1. 2142	1.2175 1.2178 1.2175 1.2176	1. 2268 1. 2271 1. 2268 1. 2271	1. 2313 1. 2317 1. 5313 1. 2317
1.1250 1.1255 1.1259 1.1259	1.1875 1.1882 1.1875 1.1882	1. 1875 1. 1881 1. 1875 1. 1881	1, 1875 1, 1881 1, 1875 1, 1881	1.1875 1.1880 1.1875 1.1880	1.1875 1.1880 1.1875 1.1880	1.1875 1.1880 1.1875 1.1880	1. 2500 1. 2507 1. 2500 1. 2507 1. 2507 1. 2507	1, 2500 1, 2507 1, 2500 1, 2507	1.2500 1.2506 1.2506 1.2506 1.2506 1.2506	1, 2500 1, 2506 1, 2506 1, 2506	1. 2500 1. 2505 1. 2500 1. 2500	1.2500 1.2505 1.2500 1.2505	1.2590 1.2505 1.2500 1.2500	1.3125 1.3132 1.3125 1.3125 1.3132
							1. 22320	1. 22540						
1. 11730 1. 11742 1. 11850 1. 11862	1.17C40 1.17C52 1.17250 1.17262	1. 17440 1. 17452 1. 17610 1. 17622	1.17660 1.17672 1.17810 1.17822	1. 17730 1. 17742 1. 17880 1. 17892	1.17800 1.17812 1.17940 1.17952	1.17980 1.17992 1.18100 1.18112	1, 22320 1, 22332 1, 23140 1, 23152 1, 23360 1, 23372	1, 23290 1, 23302 1, 23500 1, 23512	1, 23100 1, 23112 1, 23680 1, 23692 1, 23860 1, 23872	1. 23910 1. 23922 1. 24060 1. 24072	1. 23980 1. 23992 1. 24130 1. 24142	1. 24050 1. 24062 1. 24190 1. 24202	1. 24230 1. 24242 1. 24350 1. 24362	1. 29540 1. 29552 1. 29750 1. 29762
1. 12389 1. 12368 1. 12500 1. 12488	1.18540 1.18528 1.18759 1.18738	1.18580 1.18568 1.18750 1.18738	1.18600 1.18588 1.18750 1.18738	1.18600 1.18588 1.18750 1.18738	1.18598 1.18598 1.18730 1.18738	1.18630 1.18618 1.18750 1.18738	1, 24780 1, 24768 1, 24780 1, 24768 1, 25000 1, 24988	1, 24790 1, 24778 1, 25000 1, 24988	1, 24820 1, 24808 1, 24808 1, 24808 1, 25000 1, 24988	1. 24850 1. 24838 1. 25000 1. 24988	1. 24850 1. 24838 1. 25000 1. 24988	1. 24860 1. 24848 1. 25000 1. 24988	1. 24880 1. 24868 1. 25000 1. 24988	1. 31040 1. 31028 1. 31250 1. 31238
1.0889 1.0894 1.0911 1.0916	1. 0701 1. 0768 1. 0740 1. 0747	1. 1079 1. 1085 1. 1111 1. 1117	1.1268 1.1274 1.1296 1.1302	1.1330 1.1335 1.1358 1.1363	1.1381 1.1386 1.1407 1.1412	1, 1513 1, 1518 1, 1535 1, 1535 1, 1540	1, 1130 1, 1137 1, 1167 1, 1174 1, 1208 1, 1215	1. 1326 1. 1333 1. 1364 1. 1371	1, 1669 1, 1675 1, 1699 1, 1705 1, 1733 1, 1739	1.1893 1.1899 1.1921 1.1927	1.1955 1.1960 1.1983 1.1988	1. 2006 1. 2011 1. 2032 1. 2037	1. 2138 1. 2143 1. 2169 1. 2165	1. 1950 1. 1957 1. 1989 1. 1996
1. 0966 1. 0963 1. 0988 1. 0985	1. 6972 1. 0968 1. 1011 1. 1007	1, 1259 1, 1256 1, 1291 1, 1288	1.1403 1.1400 1.1431 1.1428	1.1450 1.1447 1.1478 1.1475	1.1489 1.1486 1.1515 1.1512	1.1590 1.1587 1.1612 1.1609	1. 1439 1. 1435 1. 1476 1. 1472 1. 1517 1. 1513	1.1597 1.1593 1.1635 1.1631	1, 1849 1, 1846 1, 1879 1, 1876 1, 1913 1, 1910	1. 2028 1. 2025 1. 2056 1. 2053	1.2075 1.2072 1.2103 1.2100	1.2114 1.2111 1.2140 1.2137	1. 2215 1. 2212 1. 2237 1. 2234	1. 2221 1. 2217 1. 2260 1. 2256
1. 0966 1. 0969 1. 0988 1. 0991	1. 0972 1. 0976 1. 1011 1. 1015	1, 1259 1, 1262 1, 1291 1, 1294	1.1403 1.1406 1.1431 1.1434	1, 1450 1, 1453 1, 1478 1, 1481	1.1489 1.1492 1.1515 1.1518	1, 1590 1, 1593 1, 1612 1, 1615	1, 1439 1, 1443 1, 1476 1, 1480 1, 1517 1, 1521	1, 1597 1, 1601 1, 1635 1, 1639	1, 1849 1, 1852 1, 1879 1, 1983 1, 1913 1, 1916	1, 2028 1, 2031 1, 2056 1, 2059	1. 2075 1. 2078 1. 2103 1. 2106	1.2114 1.2117 1.2140 1.2143	1, 2215 1, 2218 1, 2237 1, 2240	1, 2221 1, 2225 1, 2260 1, 2264
1.0851 1.0846 1.0863 1.0858	1. 0591 1. 0494 1. 0522 1. 0515	1. 0956 1. 0950 1. 0973 1. 0967	1.1183 1.1177 1.1198 1.1192	1, 1258 1, 1253 1, 1273 1, 1273 1, 1268	1.1319 1.1314 1.1333 1.1328	1.1476 1.1471 1.1488 1.1488	1. 0931 1. 0924 1. 0931 1. 0924 1. 0953 1. 0946	1.1126 1.1119 1.1147 1.1140	1, 1580 1, 1574 1, 1574 1, 1574 1, 1598 1, 1598	1.1808 1.1802 1.1823 1.1817	1.1883 1.1878 1.1898 1.1893	1. 1944 1. 1939 1. 1958 1. 1953	1. 2101 1. 2096 1. 2113 1. 2168	1. 1751 1. 1744 1. 1772 1. 1765
1. 1006 1. 1003 1. 1018 1. 1015	1. 1042 1. 1038 1. 1063 1. 1059	1. 1317 1. 1314 1. 1334 1. 1331	1, 1454 1, 1451 1, 1469 1, 1466	1.1499 1.1496 1.1514 1.1511	1.1536 1.1533 1.1550 1.1547	1.1631 1.1628 1.1643 1.1640	1.1550 1.1546 1.1550 1.1546 1.1572 1.1568	1.1667 1.1663 1.1688 1.1684	1. 1941 1. 1938 1. 1941 1. 1938 1. 1959 1. 1956	1, 2079 1, 2076 1, 2094 1, 2091	1. 2124 1. 2121 1. 2139 1. 2136	1. 2161 1. 2158 1. 2175 1. 2172	1. 2256 1. 2253 1. 2268 1. 2265	1. 2292 1. 2288 1. 2313 1. 2309
2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	1A 2A 3A	2A 3A	1A 2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A
ND	UN	UN	UN	UNEF	UN	UN	UNC	UN	UNF	ND	UNEF	NO	ND	UN
1, 125-28 or	13/16-8 or 1. 1875-8	13/6-12 or 1. 1875-12	13/6-16 or 1. 1875-16	13/6-18 or 1. 1875-18	13/6-20 or 1.1875-20	13/16-28 or 1.1875-28	11,4-7 or	1,250-8	11/4-12 or	1¼-16 or 1. 250-16	1,250-18	1,250-20	11/4-28 or 1. 250-28	15/6-8 or 1.3125-8

Table III.12.—Gages for standard thread series, Unified screw threads—Continued

		Nominal size and threads	perinch		21	15/6-12 or 1.3125-12	15/16-16 or 1.3125-16	1516-18 or 1.3125-18	15/6-20 or 1.3125-20	15/16-28 or 1.3125-28	138-6 or 1.375-6	1,3/5-8 or	138–12 or 1. 375–12	138–16 or 1. 375–16
		Series designa- tion			20	ÜÑ	UN	UNEF	UN	UN	UNC	NO	UNF	UN
		Class			19	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	1B 2B 3B	2B 3B	1B 2B 3B	2B 3B
	lug gates diameter		NOT		18	$\begin{array}{c} in.\\ 1.24000\\ 1.23988\\ 1.23230\\ 1.23218 \end{array}$	1, 25990 1, 25888 1, 2533 1, 25318	1.265)0 1.26488 1.26050 1.26038	1. 27000 1. 26988 1. 26620 1. 26638	1. 28230 1. 28188 1. 28310 1. 27998	1. 22500 1. 22488 1. 22500 1. 22488 1. 21460 1. 21448	1. 26500 1. 26488 1. 25470 1. 25458	1.30300 1.30288 1.30300 1.30288 1.29483 1.29468	1. 32100 1. 32088 1. 31580 1. 31568
00	Z plain plug gates for minor diameter		ф		17	$\begin{array}{c} in.\\ 1.\ 22230\\ 1.\ 22212\\ 1.\ 22230\\ 1.\ 22212\\ 1.\ 22212\\ \end{array}$	1. 24500 1. 24512 1. 24512 1. 24512	1. 25230 1. 25212 1. 25200 1. 25212	1. 25800 1. 25812 1. 25800 1. 25812	1. 27430 1. 27412 1. 27430 1. 27412	1. 19530 1. 19512 1. 19530 1. 19512 1. 19512 1. 19512	1. 24900 1. 24912 1. 24900 1. 24012	1.28530 1.28512 1.28503 1.28512 1.28512 1.28512	1.30700 1.30712 1.30700 1.30712
Gages for internal threads			diameter	Plus toler- ance gage	16	in. 1. 2659 1. 2662 1. 2643 1. 2643	1. 2785 1. 2788 1. 2769 1. 2772	1. 2827 1. 2830 1. 2811 1. 2814	1. 2861 1. 2864 1. 2845 1. 2848	1. 2946 1. 2949 1. 2933 1. 2936	1. 2822 1. 2826 1. 2771 1. 2775 1. 2745 1. 2749	1. 3331 1. 3035 1. 3008 1. 3012	1. 3332 1. 3335 1. 3291 1. 3294 1. 3270 1. 3273	1.3410 1.3413 1.3394 1.3397
r intern	gages	IHI	Pitch d	Minus toler- ance gage	15	in. 1. 2659 1. 2656 1. 2640 1. 2637	1. 2785 1. 2782 1. 2769 1. 2766	1. 2827 1. 2824 1. 2811 1. 2898	1. 2861 1. 2858 1. 2845 1. 2842	1. 2946 1. 2943 1. 2933 1. 2930	1. 2822 1. 2818 1. 2771 1. 2767 1. 2745 1. 2745	1. 3031 1. 3027 1. 3008 1. 3004	1. 3332 1. 3329 1. 3291 1. 3288 1. 3270 1. 3267	1. 3410 1. 3407 1. 3394 1. 3391
Gages fo	X thread plug			Major diam- eter	14	in. 1. 3020 1. 3014 1. 3001 1. 2995	1.3056 1.3050 1.3040 1.3034	1, 3068 1, 3063 1, 3052 1, 3047	1. 3078 1. 3073 1. 3062 1. 3057	1.3101 1.3096 1.3088 1.3083	1. 3544 1. 3536 1. 3493 1. 3485 1. 3467 1. 3459	1.3572 1.3565 1.3549 1.3542	1.3693 1.3687 1.3652 1.3646 1.3631 1.3625	1.3681 1.3675 1.3665 1.3659
	GO GO Major Pitch Midiam- diam- eter eter			Pitch diam- eter	13	in. 1. 2584 1. 2587 1. 2584 1. 2587	1. 2719 1. 2722 1. 2722 1. 2722	1. 2764 1. 2767 1. 2764 1. 2764 1. 2767	1.2830 1.2833 1.2830 1.2803	1. 2893 1. 2896 1. 2893 1. 2896	1. 2667 1. 2671 1. 2667 1. 2671 1. 2667 1. 2667	1. 2938 1. 2942 1. 2938 1. 2942	1. 3239 1. 3212 1. 3239 1. 3212 1. 3212 1. 3212	1. 3344 1. 3347 1. 3344 1. 3347
			Major diam- eter	12	in. 1. 3125 1. 3131 1. 3125 1. 3131 1. 3131	1.3125 1.3131 1.3125 1.3125	1. 3125 1. 3130 1. 3125 1. 3130	1.3125 1.3130 1.3125 1.3125	1.3125 1.3130 1.3125 1.3130	1. 3759 1. 3759 1. 3750 1. 3758 1. 3758 1. 3758	1.3750 1.3757 1.3750 1.3757	1. 3759 1. 3756 1. 3750 1. 3750 1. 3750 1. 3750	1. 3750 1. 3756 1. 3756 1. 3750 1. 3756	
	for major	Un-	finished hot- rolled material	11	in.					1.34530	1.35030			
	plain ring gages f diameter		Senil- finished	10	in. 1. 29940 1. 29952 1. 30110 1. 30122	1.30160 1.30172 1.30310 1.30322	1. 30230 1. 30242 1. 30380 1. 30392	1.30300 1.30312 1.30440 1.30452	1. 30480 1. 30492 1. 30630 1. 30612	1.34530 1.34542 1.35440 1.35452 1.35689 1.35692	1.35780 1.35792 1.36300 1.36312	1. 35590 1. 35602 1. 36170 1. 36182 1. 36360 1. 36372	1. 36410 1. 36422 1. 36560 1. 36572	
reads	Z plain ri	GO.		6	$\begin{array}{c} in.\\ 1.31080\\ 1.31068\\ 1.3125)\\ 1.3125)\\ 1.31238\\ \end{array}$	1.31100 1.31088 1.31250 1.31238	1.31100 1.31088 1.31253 1.31238	1.31110 1.31098 1.31253 1.31238	1.31130 1.31118 1.31250 1.31238	1. 37260 1. 37248 1. 37260 1. 37248 1. 37500 1. 37598	1.37280 1.37268 1.37500 1.37488	1. 37310 1. 37298 1. 37310 1. 37298 1. 37500 1. 37488	1. 37350 1. 37338 1. 37500 1. 37488	
for external threads		and 2A ss 3A		Minor diam- eter	œ	in. 1. 2329 1. 2335 1. 2361 1. 2367	1. 2518 1. 2524 1. 2546 1. 2552	1.2580 1.2585 1.2608 1.2613	1. 2631 1. 2636 1. 2657 1. 2662	1. 2763 1. 2768 1. 2785 1. 2790	1. 2162 1. 2170 1. 2202 1. 2210 1. 2246 1. 2254	1. 2573 1. 2580 1. 2613 1. 2620	1. 2916 1. 2922 1. 2947 1. 2953 1. 2982 1. 2988	1. 3143 1. 3149 1. 3171 1. 3177
Gages for ex	gages	tsses 1A and 3 GO, class 3A	iameter	Minus toler- ance gage	7	in. 1. 2509 1. 2506 1. 2541 1. 2538	1. 2653 1. 2650 1. 2681 1. 2678	1. 2700 1. 2697 1. 2728 1. 2725	1. 2739 1. 2736 1. 2765 1. 2762	1. 2840 1. 2837 1. 2862 1. 2859	1. 2523 1. 2519 1. 2563 1. 2559 1. 2607 1. 2603	1.2844 1.2840 1.2884 1.2880	1.3096 1.3093 1.3127 1.3124 1.3162 1.3162	1. 3278 1. 3275 1. 3306 1. 3303
Ga	thread ring	LO, class NOT	Pitch di	Plus toler- ance gage	9	in. 1. 2509 1. 2512 1. 2541 1. 2541	1. 2653 1. 2656 1. 2681 1. 2684	1. 2700 1. 2703 1. 2728 1. 2731	1. 2739 1. 2742 1. 2765 1. 2768	1. 2840 1. 2843 1. 2862 1. 2865	1. 2523 1. 2527 1. 2563 1. 2567 1. 2607 1. 2611	1. 2844 1. 2848 1. 2884 1. 2888	1.3096 1.3099 1.3127 1.3130 1.3162 1.3162	1. 3278 1. 3281 1. 3306 1. 3309
	X thr	0		Minor diam- eter	5	in. 1. 2206 1. 2200 1. 2223 1. 2217	1. 2433 1. 2427 1. 2448 1. 2442	1. 2508 1. 2503 1. 2523 1. 2523 1. 2518	1.2569 1.2564 1.2583 1.2578	1. 2726 1. 2721 1. 2738 1. 2733	1.1921 1.1913 1.1921 1.1913 1.1945 1.1945	1. 2375 1. 2368 1. 2397 1. 2390	1. 2829 1. 2823 1. 2829 1. 2823 1. 2848 1. 2848	1.3058 1.3052 1.3073 1.3067
	GO GO Mino diameter eter eter				4	in. 1. 2567 1. 2564 1. 2584 1. 2581	1. 2704 1. 2701 1. 2719 1. 2716	1. 2749 1. 2746 1. 2764 1. 2761	1. 2786 1. 2783 1. 2800 1. 2797	1. 2881 1. 2878 1. 2893 1. 2890	1. 2643 1. 2643 1. 2643 1. 2667 1. 2667	1. 2916 1. 2912 1. 2938 1. 2934	1.3190 1.3187 1.3190 1.3187 1.3209 1.3209	1. 3329 1. 3326 1. 3344 1. 3341
	Class				3	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	1A 2A 3A	2A 3A	1A 2A 3A	2A 3A
	Series designa-tion				2	NU	ND	UNEF	ND	NO	UNC	ND	UNF	UN
		Nominal size and threads	per inch		1	15/6-12 or 1.3125-12	15/16-16 or 1.3125-16	15/6-18 or 1.3125-18	15/6-20 or 1.3125-20	15/16-28 or 1.3125-28	138-6 or 1.375-6	138-8 or 1.375-8	13/8-12 or 1.375-12	13%-16 or 1.375-16

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1.3750 1.3380 1.3693 1.3452 1.3452 1.31500 1.32800 |

136-18 or 1.375-18	138-20 or 1.375-20	13/5-28 or 1. 375-28	17/16-6 or 1, 4375-6	17/6-8 or 1. 4375-8	17/6-12 or 1. 4375-12	17/16-16 or 1. 4375-16	17/6-18 or 1. 4375-18	17/16-20 or 1. 4375-20	17/16-28 or 1, 4375-28	1,500-6	1,500-8	1,500-12	1½-16 or 1.500-16	1,500–18
UNEF	UN	UN	UN	UN	UN	UN	UNEF	UN	NIO	UNC	UN	UNF	UN	UNEF
2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	1B 2B 3B	2B 3B	1B 2B 3B	2B 3B	2B 3B
1. 32800 1. 32788 1. 32300 1. 32288	1. 33200 1. 33188 1. 32870 1. 32858	1. 34500 1. 34488 1. 34260 1. 34248	1. 28800 1. 28788 1. 27710 1. 27698	1. 32700 1. 32688 1. 31720 1. 31708	1.36500 1.36488 1.35730 1.35718	1. 38400 1. 38388 1. 37830 1. 37818	1. 39000 1. 38988 1. 38550 1. 38538	1.39500 1.39488 1.39120 1.39108	1. 40700 1. 40688 1. 40510 1. 40498	1.35000 1.34988 1.35000 1.34988 1.33960	1. 39000 1. 38988 1. 37970 1. 37958	1, 42800 1, 42788 1, 42800 1, 42788 1, 41980 1, 41968	1. 44600 1. 44588 1. 44080 1. 44068	1. 45200 1. 45188 1. 44788 1. 44788
1.31500 1.31512 1.31500 1.31512	1. 32100 1. 32112 1. 32100 1. 32112	1, 33600 1, 33612 1, 33600 1, 33612	1. 25700 1. 25712 1. 25700 1. 25712	1.30200 1.30212 1.30200 1.30212	1.34700 1.34712 1.34700 1.34712	1,37000 1,37012 1,37000 1,37012	1, 37700 1, 37712 1, 37700 1, 37712	1.38300 1.38312 1.38300 1.38312	1.39900 1.39900 1.39900 1.39912	1.32000 1.32012 1.32000 1.32012 1.32000 1.32000	1.36500 1.36512 1.36500 1.36512	1. 41000 1. 41012 1. 41000 1. 41012 1. 41012	1, 43200 1, 43212 1, 43200 1, 43212	1. 44000 1. 44012 1. 44000 1. 44012
1. 3452 1. 3455 1. 3436 1. 3439	1.3486 1.3489 1.3470 1.3473	1. 3571 1. 3574 1. 3558 1. 3561	1.3396 1.3400 1.3370 1.3374	1. 3657 1. 3661 1. 3634 1. 3638	1.3910 1.3913 1.3891 1.3894	1. 4037 1. 4020 1. 4023 1. 4023	1. 4079 1. 4082 1. 4062 1. 4065	1. 4112 1. 4115 1. 4096 1. 4099	1. 4198 1. 4201 1. 4184 1. 4187	1. 4075 1. 4079 1. 4022 1. 4026 1. 3996 1. 3996	1. 4283 1. 4287 1. 4259 1. 4263	1. 4584 1. 4587 1. 4542 1. 4545 1. 4522 1. 4525	1. 4662 1. 4665 1. 4645 1. 4648	1. 4704 1. 4707 1. 4687 1. 4690
1.3452 1.3449 1.3436 1.3438	1.3486 1.3483 1.3470 1.3467	1. 3571 1. 3568 1. 3558 1. 3555	1, 3396 1, 3392 1, 3370 1, 3366	1, 3657 1, 3653 1, 3634 1, 3630	1, 3910 1, 3907 1, 3891 1, 3888	1, 4037 1, 4034 1, 4020 1, 4017	1, 4079 1, 4076 1, 4062 1, 4059	1. 4112 1. 4109 1. 4096 1. 4093	1. 4198 1. 4195 1. 4184 1. 4181	1. 4075 1. 4071 1. 4022 1. 4018 1. 3996 1. 3992	1. 4283 1. 4279 1. 4259 1. 4255	1.4584 1.4581 1.4542 1.4539 1.4522 1.4522 1.4529	1. 4662 1. 4659 1. 4645 1. 4642	1.4704 1.4701 1.4687 1.4684
1.3693 1.3688 1.3677 1.3672	1. 3703 1. 3698 1. 3687 1. 3682	1. 3726 1. 3721 1. 3713 1. 3713 1. 3708	1. 4118 1. 4110 1. 4092 1. 4084	1. 4198 1. 4191 1. 4175 1. 4168	1. 4271 1. 4265 1. 4252 1. 4246	1, 4308 1, 4302 1, 4291 1, 4285	1. 4320 1. 4315 1. 4303 1. 4298	1, 4329 1, 4324 1, 4313 1, 4308	1. 4353 1. 4348 1. 4339 1. 4334	1. 4797 1. 4789 1. 4744 1. 4736 1. 4718 1. 4710	1. 4824 1. 4817 1. 4800 1. 4793	1. 4945 1. 4939 1. 4903 1. 4897 1. 4887 1. 4877	1. 4933 1. 4927 1. 4916 1. 4910	1. 4945 1. 4940 1. 4928 1. 4923
1.3389 1.3389 1.3389 1.3392	1. 3425 1. 3428 1. 3428 1. 3425 1. 3428	1. 3518 1. 3521 1. 3518 1. 3518	1. 3292 1. 3296 1. 3292 1. 3296	1.3563 1.3567 1.3563 1.3563	1.3834 1.3837 1.3834 1.3837	1. 3969 1. 3972 1. 3969 1. 3972	1. 4014 1. 4017 1. 4014 1. 4014	1. 4050 1. 4053 1. 4050 1. 4053	1. 4143 1. 4146 1. 4143 1. 4146	1. 3917 1. 3921 1. 3917 1. 3921 1. 3921 1. 3921	1. 4188 1. 4192 1. 4188 1. 4192	1. 4459 1. 4462 1. 4462 1. 4462 1. 4462 1. 4462	1. 4594 1. 4597 1. 4594 1. 4597	1. 4639 1. 4642 1. 4639 1. 4642
1. 3750 1. 3756 1. 3750 1. 3755	1. 3750 1. 3755 1. 3755 1. 3755	1.3750 - 1.3755 - 1.3750 - 1.3750	1. 4375 1. 4383 1. 4375 1. 4375	1. 4375 1. 4382 1. 4375 1. 4375 1. 4382	1. 4375 1. 4381 1. 4375 1. 4375 1. 4381	1. 4375 1. 4381 1. 4375 1. 4381	1. 4375 1. 4380 1. 4375 1. 4375	1. 4375 1. 4380 1. 4375 1. 4380	1. 4375 1. 4380 1. 4375 1. 4380	1.5000 1.5000 1.5000 1.5000 1.5000	1.5000 1.5007 1.5000 1.5000	1.5000 1.5000 1.5000 1.5000 1.5000 1.5000	1.5000 1.5006 1.5000 1.5000	1.5000 1.5005 1.5005 1.5005
										1, 47030	1, 47530			
1.36480 1.36492 1.36630 1.36642	1.36550 1.36562 1.36690 1.36702	1.36730 1.36742 1.36850 1.36862	1. 41690 1. 41702 1. 41930 1. 41942	1, 42030 1, 42042 1, 42250 1, 42262	1. 42430 1. 42442 1. 42610 1. 42622	1. 42650 1. 42662 1. 42810 1. 42822	1. 42730 1. 42742 1. 42880 1. 42892	1. 42800 1 42812 1. 42940 1. 42952	1, 42970 1, 42982 1, 43100 1, 43112	1. 47030 1. 47042 1. 47940 1. 47952 1. 48180 1. 48192	1. 48280 1. 48292 1. 48500 1. 48512	1.48090 1.48102 1.48670 1.48682 1.48860 1.48872	1. 48900 1. 48912 1. 49060 1. 49072	1, 48980 1, 48992 1, 49130 1, 49142
1. 37350 1. 37338 1. 37500 1. 37488	1.37360 1.37348 1.37500 1.37488	1, 37389 1, 37368 1, 37500 1, 37488	1, 43510 1, 43498 1, 43750 1, 43738	1, 43530 1, 43518 1, 43750 1, 43738	1. 43570 1. 43558 1. 43750 1. 43738	1, 43590 1, 43578 1, 43750 1, 43738	1, 43500 1, 43588 1, 43750 1, 43738	1, 43610 1, 43598 1, 43750 1, 43738	1. 43620 1. 43608 1. 43750 1. 43738	1. 49760 1. 49748 1. 49748 1. 49748 1. 50000 1. 49988	1. 49780 1. 49768 1. 50000 1. 49988	1. 49810 1. 49798 1. 49798 1. 49798 1. 50000 1. 49988	1. 49°40 1. 49828 1. 50000 1. 49988	1. 49850 1. 49838 1. 50000 1. 49988
1. 3205 1. 3210 1. 3233 1. 3238	1.3256 1.3261 1.3282 1.3287	1.3388 1.3393 1.3410 1.3415	1, 2827 1, 2835 1, 2871 1, 2879	1.3198 1.3205 1.3238 1.3245	1, 3577 1, 3583 1, 3610 1, 3616	1. 3766 1. 3772 1. 3795 1. 3301	1. 3829 1. 3834 1. 3857 1. 3862	1, 3880 1, 3885 1, 3906 1, 3911	1. 4011 1. 4016 1. 4035 1. 4040	1.3411 1.3419 1.3151 1.3459 1.3459 1.3459	1, 3822 1, 3829 1, 3862 1, 3869	1, 4164 1, 4170 1, 4196 1, 4202 1, 4231 1, 4231	1. 4391 1. 4397 1. 4420 1. 4426	1. 4454 1. 4459 1. 4482 1. 4487
1. 3325 1. 3322 1. 3353 1. 3350	1. 3364 1. 3361 1. 3390 1. 3387	1.3465 1.3462 1.3487 1.3484	1,3188 1,3184 1,3232 1,3228	1.3469 1.3465 1.3509 1.3505	1. 3757 1. 3754 1. 3790 1. 3787	1. 3901 1. 3898 1. 3930 1. 3927	1.3949 1.3946 1.3977 1.3974	1. 3988 1. 3985 1. 4014 1. 4011	1. 4088 1. 4085 1. 4112 1. 4109	1.3772 1.3768 1.3812 1.3808 1.3856 1.3856	1. 4093 1. 4089 1. 4133 1. 4129	1. 4344 1. 4341 1. 4376 1. 4373 1. 4411 1. 4408	1. 4526 1. 4523 1. 4555 1. 4555	1, 4574 1, 4571 1, 4602 1, 4599
1. 3325 1. 3328 1. 3353 1. 3356	1. 3364 1. 3367 1. 3390 1. 3393	1.3465 1.3468 1.3487 1.3490	1, 3188 1, 3192 1, 3232 1, 3236	1, 3469 1, 3473 1, 3509 1, 3513	1. 3757 1. 3760 1. 3790 1. 3793	1. 3901 1. 3904 1. 3930 1. 3933	1. 3949 1. 3952 1. 3977 1. 3980	1, 3988 1, 3891 1, 4014 1, 4017	1. 4088 1. 4091 1. 4112 1. 4115	1. 3772 1. 3776 1. 3812 1. 3816 1. 3856 1. 3860	1, 4093 1, 4097 1, 4133 1, 4137	1, 4344 1, 4347 1, 4376 1, 4379 1, 4411 1, 4414	1. 4526 1. 4529 1. 4555 1. 4558	1. 4574 1. 4577 1. 4602 1. 4605
1. 3133 1. 3128 1. 3148 1. 3143	1.3189 1.3208 1.3208 1.3203	1, 3351 1, 3346 1, 3363 1, 3358	1. 2546 1. 2538 1. 2570 1. 2562	1. 3000 1. 2993 1. 3022 1. 3015	1. 3455 1. 3449 1. 3473 1. 3467	1.3682 1.3676 1.3698 1.3692	1. 3758 1. 3753 1. 3773 1. 3768	1.3819 1.3814 1.3833 1.3828	1. 3975 1. 3970 1. 3988 1. 3983	1, 3171 1, 3163 1, 3171 1, 3163 1, 3195 1, 3187	1. 3625 1. 3618 1. 3647 1. 3640	1. 4079 1. 4079 1. 4073 1. 4098 1. 4092	1, 4307 1, 4301 1, 4323 1, 4317	1. 4383 1. 4378 1. 4398 1. 4393
1.3374 1.3371 1.3389 1.3386	1.3411 1.3408 1.3425 1.3422	1, 3506 1, 3503 1, 3518 1, 3515	1, 3268 1, 3264 1, 3292 1, 3288	1, 3541 1, 3537 1, 3563 1, 3559	1, 3816 1, 3813 1, 3834 1, 3831	1. 3953 1. 3950 1. 3969 1. 3966	1.3999 1.3996 1.4014 1.4011	1. 4036 1. 4033 1. 4050 1. 4047	1. 4130 1. 4127 1. 4143 1. 4140	1, 3893 1, 3889 1, 3893 1, 3897 1, 3917 1, 3913	1. 4166 1. 4162 1. 4188 1. 4184	1. 4140 1. 4437 1. 4440 1. 4437 1. 4459 1. 4456	1. 4578 1. 4575 1. 4594 1. 4591	1. 4624 1. 4621 1. 4639 1. 4636
2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	1A 2A 3A	2A 3A	1A 2A 3A	2A 3A	2A 3A
UNEF	UN	UN	UN	NU	UN	UN	UNEF	UN	UN	UNC	UN	UNF	ND	UNEF
138–18 or 1.375–18	138-20 or 1. 375-20	138–28 or 1.375–28	17/16-6 or 1. 4375-6	17/16-8 or 1. 4375-8	17/16-12 or 1. 4375-12	17/16-16 or 1, 4375-16	17/16–18 or 1. 4375–18	17/16-20 or 1. 4375-20	17/16-28 or 1, 4375-28	1½–6 or 1. 500–6	1½-8 or 1. 500-8	1,500-12	1½-16 or 1,500-16	1½-18 or 1, 500-18

Table III.12.—Gages for standard thread series, Unified screw threads—Continued

Nominal Size and threads per inch					21	1½-20 or 1. 500-20	1½-28 or 1. 500-28	1%6-6 or 1. 5625-6	19/6-8 or 1. 5625-8	19/6-12 or 1. 5625-12	1%e-16 or 1. 5625-16	19/6-18 or 1. 5625-18	19/6-20 or 1. 5625-20	158-6 or 1. 625-6	158–8 or 1. 625–8
Series designa- tion					20	UN	UN	NO	UN	NO	UN	UNEF	N D	UN	UN
	Class					2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B
	Z plain plug gates for minor diameter	NOT GO			18	im. 1. 45700 1. 45688 1. 45370 1. 45358	1. 47000 1. 46988 1. 46760 1. 46748	1. 41300 1. 41284 1. 40210 1. 40194	1. 45200 1. 45184 1. 44220 1. 44204	1. 49000 1. 48984 1. 48230 1. 48214	1. 50900 1. 50884 1. 50330 1. 50314	1. 51500 1. 51484 1. 51050 1. 51034	1. 52000 1. 51984 1. 51620 1. 51604	1. 47500 1. 47484 1. 46460 1. 46444	1. 51500 1. 51484 1. 50470 1. 50454
Gages for internal threads	Z plain p for minor	00			17	in. 1. 44600 1. 44612 1. 44612 1. 44612	1.46100 1.46112 1.46100 1.46112	1, 38200 1, 38216 1, 38200 1, 38216	1, 42700 1, 42716 1, 42700 1, 42716	1, 47200 1, 47216 1, 47200 1, 47216	1. 49500 1. 49516 1. 49500 1. 49516	1. 50200 1. 50216 1. 50200 1. 50216	1. 50800 1. 50816 1. 50800 1. 50816	1. 44500 1. 44516 1. 44500 1. 44516	1. 49000 1. 49016 1. 49000 1. 49016
	X thread plug gages	Ш	Pitch diameter	Plus toler- ance gage	16	in. 1. 4737 1. 4740 1. 4721 1. 4724	1. 4823 1. 4826 1. 4809 1. 4812	1. 4648 1. 4653 1. 4622 1. 4627	1. 4909 1. 4914 1. 4885 1. 4890	1. 5160 1. 5164 1. 5141 1. 5145	1. 5287 1. 5291 1. 5270 1. 5274	1. 5329 1. 5333 1. 5312 1. 5316	1. 5362 1. 5366 1. 5346 1. 5350	1. 5274 1. 5279 1. 5247 1. 5252	1. 5535 1. 5540 1. 5510 1. 5515
			Pitch d	Minus toler- ance gage	15	in. 1. 4737 1. 4734 1. 4721 1. 4718	1. 4823 1. 4820 1. 4809 1. 4806	1. 4648 1. 4643 1. 4622 1. 4617	1. 4909 1. 4904 1. 4885 1. 4880	1. 5160 1. 5156 1. 5141 1. 5137	1. 5287 1. 5283 1. 5270 1. 5266	1. 5329 1. 5325 1. 5312 1. 5308	1. 5362 1. 5358 1. 5346 1. 5342	1. 5274 1. 5269 1. 5247 1. 5242	1. 5535 1. 5530 1. 5510 1. 5505
			Major diam- etcr		14	in. 1. 4954 1. 4949 1. 4938 1. 4933	1. 4978 1. 4973 1. 4964 1. 4959	1. 5370 1. 5362 1. 5344 1. 5336	1. 5450 1. 5443 1. 5426 1. 5419	1. 5521 1. 5515 1. 5502 1. 5496	1. 5558 1. 5552 1. 5541 1. 5535	1. 5570 1. 5565 1. 5553 1. 5548	1. 5579 1. 5574 1. 5563 1. 5558	1. 5996 1. 5988 1. 5969 1. 5961	1. 6076 1. 6069 1. 6051 1. 6044
		09	Pitch diam- eter		13	in. 1. 4675 1. 4678 1. 4675 1. 4675	1. 4768 1. 4771 1. 4768 1. 4771	1. 4542 1. 4547 1. 4542 1. 4547	1. 4813 1. 4818 1. 4813 1. 4818	1. 5084 1. 5088 1. 5084 1. 5088	1. 5219 1. 5223 1. 5219 1. 5223	1. 5264 1. 5268 1. 5264 1. 5268	1. 5300 1. 5304 1. 5300 1. 5304	1. 5167 1. 5172 1. 5167 1. 5167	1. 5438 1. 5443 1. 5438 1. 5443
				Major diam- cter		in. 1. 5000 1. 5005 1. 5006 1. 5006	1.5000 1.5005 1.5000 1.5005	1. 5625 1. 5633 1. 5625 1. 5623	1. 5625 1. 5632 1. 5625 1. 5622	1. 5625 1. 5631 1. 5625 1. 5631	1. 5625 1. 5631 1. 5625 1. 5631	1. 5625 1. 5630 1. 5625 1. 5630	1. 5625 1. 5630 1. 5625 1. 5630	1. 6250 1. 6258 1. 6250 1. 6258	1. 6250 1. 6257 1. 6250 1. 6257
Gages for external threads	Z plain ring gages for major diameter	NOT GO	Un- finished hot- rolled material		11	in.									1.60030
			Semi- finished		10	in. 1. 49050 1. 49062 1. 49190 1. 49202	1. 49220 1. 49232 1. 49350 1. 49362	1. 54190 1. 54206 1. 54430 1. 54446	1, 54530 1, 54546 1, 54750 1, 54766	1. 54930 1. 54946 1. 55110 1. 55126	1. 55150 1. 55166 1. 55310 1. 55326	1. 55230 1. 55246 1. 55380 1. 55396	1. 55300 1. 55316 1. 55440 1. 55456	1. 60430 1. 60446 1. 60680 1. 60696	1. 60780 1. 60796 1. 61000 1. 61016
		00		6	in. 1. 49860 1. 49848 1. 50000 1. 49988	1. 49870 1. 49858 1. 50000 1. 49988	1. 56010 1. 55994 1. 56250 1. 56234	1. 56030 1. 56014 1. 56250 1. 56234	1. 56070 1. 56054 1. 56250 1. 56234	1. 56090 1. 56074 1. 56250 1. 56234	1. 56100 1. 56084 1. 56250 1. 56234	1. 56110 1. 56094 1. 56250 1. 56234	1. 62250 1. 62234 1. 62500 1. 62484	1. 62280 1. 62264 1. 62500 1. 62484	
	X thread ring gages	LO, classes 1A and 2A NOT GO, class 3A	Minor diam- eter		∞	in. 1. 4505 1. 4510 1. 4531 1. 4536	1. 4636 1. 4641 1. 4660 1. 4665	1. 4075 1. 4083 1. 4120 1. 4128	1. 4446 1. 4453 1. 4487 1. 4494	1. 4827 1. 4833 1. 4860 1. 4866	1. 5016 1. 5022 1. 5045 1. 5051	1. 5079 1. 5084 1. 5107 1. 5112	1. 5130 1. 5135 1. 5156 1. 5161	1. 4699 1. 4707 1. 4744 1. 4752	1. 5071 1. 5078 1. 5111 1. 5118
			diameter	Minus toler- ance gage	7	<i>in.</i> 1. 4613 1. 4610 1. 4639 1. 4636	1. 4713 1. 4710 1. 4737 1. 4737	1. 4436 1. 4431 1. 4481 1. 4476	1. 4717 1. 4712 1. 4758 1. 4753	1. 5007 1. 5003 1. 5040 1. 5036	1. 5151 1. 5147 1. 5180 1. 5176	1. 5199 1. 5195 1. 5227 1. 5223	1. 5238 1. 5234 1. 5264 1. 5260	1. 5060 1. 5055 1. 5105 1. 5100	1. 5342 1. 5337 1. 5382 1. 5377
			Pitch d	Plus toler- ance gage	9	<i>in.</i> 1. 4613 1. 4616 1. 4639 1. 4642	1. 4713 1. 4716 1. 4737 1. 4740	1. 4436 1. 4441 1. 4481 1. 4486	1. 4717 1. 4722 1. 4758 1. 4763	1. 5007 1. 5011 1. 5040 1. 5044	1. 5151 1. 5155 1. 5180 1. 5184	1. 5199 1. 5203 1. 5227 1. 5231	1. 5238 1. 5242 1. 5264 1. 5268	1. 5060 1. 5065 1. 5105 1. 5110	1. 5342 1. 5347 1. 5382 1. 5387
		09	Minor diam- eter		2	<i>in.</i> 1. 4444 1. 4439 1. 4458 1. 4453	1. 4600 1. 4595 1. 4613 1. 4608	1.3796 1.3788 1.3820 1.3812	1. 4250 1. 4243 1. 4272 1. 4265	1. 4705 1. 4699 1. 4723 1. 4717	1. 4932 1. 4926 1. 4948 1. 4942	1. 5008 1. 5003 1. 5023 1. 5018	1. 5069 1. 5064 1. 5083 1. 5078	1. 4420 1. 4412 1. 4445 1. 4437	1. 4875 1. 4868 1. 4897 1. 4890
				Pitch diam- eter		in. 1. 4661 1. 4658 1. 4675 1. 4672	1. 4755 1. 4752 1. 4768 1. 4765	1. 4518 1. 4513 1. 4542 1. 4537	1. 4791 1. 4786 1. 4813 1. 4808	1. 5066 1. 5062 1. 5084 1. 5080	1. 5203 1. 5199 1. 5219 1. 5215	1. 5249 1. 5245 1. 5264 1. 5260	1. 5286 1. 5282 1. 5300 1. 5296	1. 5142 1. 5137 1. 5167 1. 5162	1. 5416 1. 5411 1. 5438 1. 5433
	Class					2A 3.A	2A 3A								
	Series designa- tion					UN	UN	UN	UN	UN	UN	UNEF	UN	UN	UN
	Nominal Size and threads per inch					1½-20 or 1.500-20	13½-28 or 1.500-28	19/16-6 or 1. 5625-6	19/16-8 or 1. 5625-8	1%6-12 or 1. 5625-12	1%6-16 or 1. 5625-16	1% 6-18 or 1. 5625-18	1% 6-20 or 1. 5625-20	158-6 or 1. 625-6	1.625-8 or

154-12 or 1. 625-12	156-16 or 1.625-16	158-18 or 1. 625-18	158-20 or 1.625-20	11 11 16-6 or 1. 6875-6	11116-8 or 1.6875-8	11 11 46-12 or 11. 6875-12	11½ 6-16 or 1. 6875-16	111/16-18 or 1.6875-18	11 ½ 6-20 or 1. 6875-20	1,750-5	134-6 or 1.750-6	134-8 or 1.750-8	134–12 or 1.750–12	134-16 or 1.750-16
Z D	ND	UNEF	UN	ND	ND	UN	ND	UNEF	ND	UNC	UN	UN	ND	N D
2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	1B 2B 3B	2B 3B	2B 3B	2B 3B	2B 3B
1. 55300 1. 55284 1. 54480 1. 54464	1.57100 1.57084 1.56583 1.56564	1. 57890 1. 57784 1. 57300 1. 57284	1. 58200 1. 58184 1. 57870 1. 57854	1. 53800 1. 53784 1. 52710 1. 52694	1. 57700 1. 57684 1. 56720 1. 56720	1. 61500 1. 61484 1. 69730 1. 69714	1. 63400 1. 63384 1. 62830 1. 62814	1. 64900 1. 63984 1. 63550 1. 63534	1. 64590 1. 64484 1. 64120 1. 64104	1. 56800 1. 56784 1. 56800 1. 56784 1. 55750 1. 55734	1. 60000 1. 59984 1. 58960 1. 58944	1. 64000 1. 63984 1. 62970 1. 62954	1. 67800 1. 67784 1. 66980 1. 66964	1. 69600 1. 69584 1. 69080 1. 69064
1. 53590 1. 53516 1. 53500 1. 53516	1. 55700 1. 55716 1. 55700 1. 55716	1. 56500 1. 56516 1. 56500 1. 56516	1.57100 1.57116 1.57100 1.57100	1. 59700 1. 59716 1. 59700 1. 59700	1. 55200 1. 55216 1. 55200 1. 55200 1. 55216	1. 59700 1. 59716 1. 59700 1. 59716	1. 62000 1. 62016 1. 62000 1. 62016	1. 62700 1. 62716 1. 62700 1. 62716	1. 63300 1. 63316 1. 63300 1. 63316	1. 53400 1. 53416 1. 53416 1. 53416 1. 53416 1. 53416	1.57000 1.57016 1.57000 1.57016	1.61500 1.61516 1.61500 1.61500	1.66000 1.66016 1.56000 1.66016	1. 68200 1. 68216 1. 68200 1. 68216
1. 5785 1. 5789 1. 5766 1. 5770	1. 5912 1. 5916 1. 5895 1. 5890	1. 5954 1. 5958 1. 5937 1. 5941	1. 5987 1. 5991 1. 5971 1. 5975	1.5900 1.5905 1.5873 1.5878	1. 6169 1. 6165 1. 6136 1. 6141	1. 6412 1. 6416 1. 6392 1. 6396	1. 6538 1. 6542 1. 6521 1. 6525	1.6580 1.6584 1.6563 1.6567	1. 6613 1. 6617 1. 6597 1. 6601	1.6375 1.6380 1.6317 1.6322 1.6288 1.6293	1.6525 1.6530 1.6498 1.6503	1. 6786 1. 6791 1. 6762 1. 6767	1. 7037 1. 7041 1. 7017 1. 7021	1. 7163 1. 7167 1. 7146 1. 7150
1. 5785 1. 5781 1. 5766 1. 5762	1.5912 1.5938 1.5895 1.5891	1.5954 1.5950 1.5937 1.5933	1. 5987 1. 5983 1. 5971 1. 5967	1.5900 1.5895 1.5873 1.5873	1.6169 1.6155 1.6136 1.6131	1.6412 1.6498 1.6392 1.6388	1. 6538 1. 6534 1. 6521 1. 6517	1.6589 1.6576 1.6563 1.6563	1. 6613 1. 6699 1. 6597 1. 6593	1.6375 1.6370 1.6317 1.6312 1.6288 1.6283	1. 6525 1. 6520 1. 6498 1. 6493	1. 6786 1. 6781 1. 6762 1. 6757	1. 7037 1. 7033 1. 7017 1. 7013	1. 7163 1. 7159 1. 7146 1. 7142
1. 6146 1. 6140 1. 6127 1. 6121	1. 6183 1. 6177 1. 6166 1. 6169	1. 6195 1. 6190 1. 6178 1. 6173	1. 6204 1. 6199 1. 6183 1. 6183	1. 6622 1. 6614 1. 6595 1. 6587	1. 6701 1. 6694 1. 6677 1. 6670	1. 6773 1. 6767 1. 6753 1. 6747	1. 6809 1. 6893 1. 6792 1. 6786	1. 6821 1. 6816 1. 6894 1. 6799	1. 6830 1. 6825 1. 6814 1. 6809	1. 7241 1. 7233 1. 7183 1. 7183 1. 7175 1. 7154	1. 7247 1. 7239 1. 7220 1. 7212	1. 7327 1. 7320 1. 7303 1. 7296	1. 7398 1. 7392 1. 7378 1. 7372	1. 7434 1. 7428 1. 7417 1. 7411
1. 5709 1. 5713 1. 5709 1. 5709	1. 5844 1. 5848 1. 5844 1. 5844	1. 5899 1. 5893 1. 5893 1. 5893	1. 5925 1. 5929 1. 5925 1. 5929	1. 5792 1. 5797 1. 5792 1. 5792	1. 6568 1. 6568 1. 6568 1. 6568	1. 6334 1. 6338 1. 6334 1. 6338	1. 6469 1. 6473 1. 6469 1. 6473	1. 6514 1. 6518 1. 6514 1. 6514	1.6559 1.6554 1.6559 1.6559	1. 6201 1. 6201 1. 6206 1. 6206 1. 6206 1. 6206	1.6417 1.6422 1.6417 1.6417 1.6422	1.6688 1.6693 1.6688 1.6693	1, 6959 1, 6963 1, 6959 1, 6963	1. 7094 1. 7098 1. 7094 1. 7098
1. 6250 1. 6256 1. 6250 1. 6250	1. 6250 1. 6256 1. 6250 1. 6256	1. 6250 1. 6255 1. 6259 1. 6259	1. 6250 1. 6255 1. 6253 1. 6255	1. 6875 1. 6883 1. 6875 1. 6883	1. 6875 1. 6882 1. 6875 1. 6882	1. 6875 1. 6881 1. 6875 1. 6881	1. 6875 1. 6881 1. 6875 1. 6881	1. 6875 1. 6880 1. 6875 1. 6875	1. 6875 1. 6889 1. 6875 1. 6880	1.7500 1.7508 1.7508 1.7508 1.7508 1.7508	1. 7500 1. 7508 1. 7500 1. 7508	1. 7500 1. 7507 1. 7500 1. 7500	1. 7500 1. 7506 1. 7500 1. 7500	1. 7500 1. 7506 1. 7506 1. 7506
										1,71650		1.72520		
1. 61180 1. 61196 1. 61360 1. 61376	1.61400 1.61416 1.61569 1.61576	1. 61480 1. 61496 1. 61630 1. 61646	1. 61559 1. 61566 1. 61690 1. 61706	1. 66680 1. 66696 1. 66930 1. 66946	1. 67030 1. 67046 1. 67250 1. 67266	1. 67430 1. 67446 1. 67610 1. 67626	1. 67659 1. 67666 1. 67810 1. 67826	1. 67730 1. 67746 1. 67880 1. 67896	1. 67790 1. 67806 1. 67940 1. 67956	1.71656 1.72680 1.72680 1.72696 1.72950 1.72966	1. 72930 1. 72946 1. 73180 1. 73196	1. 73270 1. 73286 1. 73500 1. 73516	1. 73680 1. 73696 1. 73860 1. 73876	1. 73900 1. 73916 1. 74060 1. 74076
1. 62320 1. 62304 1. 62500 1. 62484	1. 62340 1. 62324 1. 62500 1. 62484	1. 62350 1. 62334 1. 62500 1. 62484	1. 62369 1. 62344 1. 62590 1. 62484	1.68500 1.68484 1.68759 1.68734	1. 68530 1. 68514 1. 68750 1. 68734	1. 68570 1. 68554 1. 68750 1. 68734	1. 68590 1. 68574 1. 68750 1. 68734	1. 68610 1. 68584 1. 68750 1. 68734	1. 68630 1. 68584 1. 68750 1. 68734	1. 74730 1. 74714 1. 74730 1. 74714 1. 75000 1. 74984	1. 74750 1. 74734 1. 75000 1. 74984	1, 74770 1, 74754 1, 75000 1, 74984	1.74820 1.74804 1.75000 1.74984	1.74840 1.74824 1.75000 1.74984
1. 5452 1. 5458 1. 5485 1. 5491	1. 5641 1. 5647 1. 5670 1. 5676	1. 5704 1. 5709 1. 5732 1. 5737	1. 5755 1. 5760 1. 5781 1. 5781 1. 5786	1. 5323 1. 5331 1. 5369 1. 5377	1. 5695 1. 5702 1. 5736 1. 5736 1. 5743	1. 6076 1. 6382 1. 6109 1. 6115	1. 6265 1. 6271 1. 6294 1. 6300	1. 6328 1. 6333 1. 6356 1. 6361	1. 6379 1. 6384 1. 6406 1. 6411	1. 5607 1. 5615 1. 5652 1. 5660 1. 5701 1. 5701	1. 5948 1. 5956 1. 5993 1. 6001	1. 6319 1. 6326 1. 6360 1. 6367	1. 6701 1. 6707 1. 6734 1. 6740 1. 6740	1. 6890 1. 6896 1. 6919 1. 6925
1. 5632 1. 5628 1. 5665 1. 5661	1. 5776 1. 5772 1. 5895 1. 5801	1. 5824 1. 5820 1. 5852 1. 5848	1. 5863 1. 5859 1. 5889 1. 5885	1. 5684 1. 5679 1. 5730 1. 5725	1. 5966 1. 5961 1. 6007 1. 6002	1. 6256 1. 6252 1. 6289 1. 6285	1. 6400 1. 6396 1. 6429 1. 6425	1. 6448 1. 6444 1. 6476 1. 6472	1. 6487 1. 6483 1. 6514 1. 6510	1.6040 1.6035 1.6085 1.6080 1.6134 1.6129	1. 6309 1. 6304 1. 6354 1. 6349	1. 6590 1. 6585 1. 6631 1. 6626	1.6881 1.6877 1.6914 1.6910	1. 7025 1. 7021 1. 7054 1. 7050
1, 5632 1, 5636 1, 5665 1, 5669	1. 5776 1. 5789 1. 5805 1. 5809	1. 5824 1. 5828 1. 5852 1. 5856	1. 5863 1. 5867 1. 5889 1. 5893	1. 5684 1. 5689 1. 5730 1. 5735	1. 5966 1. 5971 1. 6007 1. 6012	1. 6256 1. 6269 1. 6289 1. 6293	1. 6400 1. 6404 1. 6429 1. 6433	1. 6448 1. 6452 1. 6476 1. 6480	1. 6487 1. 6491 1. 6514 1. 6518	1.6040 1.6045 1.6085 1.6090 1.6134 1.6139	1. 6309 1. 6314 1. 6354 1. 6359	1. 6590 1. 6595 1. 6631 1. 6636	1. 6881 1. 6885 1. 6914 1. 6918	1. 7025 1. 7029 1. 7054 1. 7058
1. 5330 1. 5324 1. 5348 1. 5342	1. 5557 1. 5551 1. 5573 1. 5567	1. 5633 1. 5628 1. 5648 1. 5643	1. 5694 1. 5689 1. 5708 1. 5708	1. 5945 1. 5937 1. 5970 1. 5062	1. 5500 1. 5493 1. 5522 1. 5515	1. 5955 1. 5949 1. 5973 1. 5967	1. 6182 1. 6176 1. 6198 1. 6192	1. 6258 1. 6253 1. 6273 1. 6268	1. 6318 1. 6313 1. 6333 1. 6328	1.5308 1.5300 1.5308 1.5300 1.5335 1.5327	1. 5670 1. 5662 1. 5695 1. 5695 1. 5687	1. 6124 1. 6117 1. 6147 1. 6140	1.6580 1.6574 1.6598 1.6598	1. 6807 1. 6801 1. 6823 1. 6817
1. 5691 1. 5687 1. 5709 1. 5705	1. 5828 1. 5824 1. 5844 1. 5840	1.5874 1.5870 1.5889 1.5885	1. 5911 1. 5907 1. 5925 1. 5921	1.5767 1.5762 1.5792 1.5787	1. 6941 1. 6936 1. 6063 1. 6958	1. 6316 1. 6312 1. 6334 1. 6330	1. 6453 1. 6449 1. 6469 1. 6465	1.6499 1.6495 1.6514 1.6510	1. 6535 1. 6531 1. 6550 1. 6546	1. 6174 1. 6169 1. 6174 1. 6169 1. 6201 1. 6196	1.6392 1.6387 1.6417 1.6412	1,6665 1,6660 1,6688 1,6683	1.6941 1.6937 1.6959 1.6955	1. 7078 1. 7074 1. 7094 1. 7090
2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3.4	2A 3A	2A 3A	2A 3A	2A 3A	1A 2A 3A	2A 3A	2A 3A	2A 3A	2A 3A
ND	ND	UNEF	NO	ND	UN	UN	UN	UNEF	UN	UNC	UN	UN	UN	UN
158–12 or 1, 625–12	158–16 or 1. 625–16	158-18 or 1. 625-18	136-20 or 1.625-20	111/16-6 or 1. 6875-6	1.6875-8 or	1.146-12 or	1.1%e-16 or	111/16-18 or 1. 6875-18	111/6-20 or 1 6875-20	134-5 or 1. 750-5	134-6 or 1.750-6	134-8 or 1.750-8	134-12 or 1, 750-12	134-16 or 1.750-16

Table III.12.—Gages for standard thread series, Unified screw threads—Continued

		Nominal Size and	perineh		21	134-20 or 1.750-20	1 ¹³ / ₁₆ -6 or 1.8125-6	1 ¹³ %6-8 or 1. 8125-8	113/6-12 or 1.8125-12	$\frac{1^{1}\%6-16 \text{ or}}{1.8125-16}$	1 ¹³ / ₁₆ -20 or 1.8125-20	178-6 or 1. 875-6	178-8 or 1. 875-8	178–12 or 1. 875–12	174-16 or 1. 875-16
		Series designa-	tion		50	UN	UN	UN	N N	N N	UN	NN	ND	UN	UN
		Class			19	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B
	Z plain plug gages for minor diameter		NOT GO		18	in. 1. 70700 1. 70684 1. 70370 1. 70354	1. 66300 1. 66284 1. 65210 1. 65194	1. 70200 1. 70184 1. 69220 1. 69204	1. 74000 1. 73984 1. 73230 1. 73214	1. 75900 1. 75884 1. 75330 1. 75314	1. 77000 1. 76984 1. 76620 1. 76604	1. 72500 1. 72484 1. 71460 1. 71444	1. 76590 1. 76484 1. 75470 1. 75454	1.89300 1.89284 1.79480 1.79464	1. 82100 1. 82084 1. 81580 1. 81564
So	Z plain p for minor		GO		17	in. 1. 69600 1. 69600 1. 69616 1. 69616	1, 63200 1, 63216 1, 63200 1, 63216	1. 67700 1. 67716 1. 67700 1. 67716	1. 72200 1. 72216 1. 72200 1. 72216	1. 74500 1. 74516 1. 74500 1. 74516	1,75800 1,75816 1,75816 1,75810 1,75816	1. 69500 1. 69516 1. 69500 1. 69516	1. 74000 1. 74016 1. 74000 1. 74016	1.78530 1.78516 1.78500 1.78516	1.82700 1.80716 1.82700 1.83716
Gages for internal threads			Pitch diameter	Plus toler- ance gage	16	in. 1. 7238 1. 7242 1. 7222 1. 7226	1. 7151 1. 7156 1. 7124 1. 7129	1. 7412 1. 7417 1. 7387 1. 7392	1. 7662 1. 7666 1. 7642 1. 7646	1. 7788 1. 7792 1. 7771 1. 7775	1. 7863 1. 7867 1. 7847 1. 7851	1. 7777 1. 7782 1. 7749 1. 7754	1. 8038 1. 8043 1. 8013 1. 8018	1. 8287 1. 8291 1. 8267 1. 8271	1. 8413 1. 8417 1. 8396 1. 8400
or intern	gages	111	Pitch d	Minus toler- ance gage	15	in. 1. 7238 1. 7234 1. 7222 1. 7218	1,7151 1,7146 1,7124 1,7119	1. 7412 1. 7407 1. 7387 1. 7382	1. 7662 1. 7658 1. 7642 1. 7638	1. 7788 1. 7784 1. 7771 1. 7771	1. 7863 1. 7859 1. 7847 1. 7843	1. 7777 1. 7772 1. 7749 1. 7744	1. 8038 1. 8033 1. 8013 1. 8008	1. 8287 1. 8283 1. 8267 1. 8263	1.8413 1.8499 1.8396 1.8392
Gages f	ead plug			Major diam- eter	14	in. 1. 7455 1. 7450 1. 7439 1. 7434	1. 7873 1. 7865 1. 7846 1. 7838	1. 7953 1. 7946 1. 7928 1. 7921	1.8023 1.8017 1.8003 1.7997	1.8059 1.8053 1.8042 1.8036	1.8083 1.8054 1.8064 1.8059	1.8499 1.8491 1.8471 1.8463	1. 8579 1. 8572 1. 8554 1. 8547	1.8648 1.8642 1.8628 1.8622	1. 8684 1. 8678 1. 8667 1. 8661
	GO		Pitch diam- eter	13	in. 1. 7175 1. 7179 1. 7179 1. 7175	1. 7042 1. 7047 1. 7042 1. 7042	1. 7313 1. 7318 1. 7313 1. 7318	1. 7584 1. 7588 1. 7584 1. 7584	1. 7719 1. 7723 1. 7719 1. 7723	1. 7804 1. 7804 1. 7800 1. 7804	1. 7667 1. 7672 1. 7667 1. 7672	1. 7938 1. 7943 1. 7938 1. 7943	1. 8209 1. 8213 1. 8209 1. 8213	1. 8344 1. 8348 1. 8344 1. 8348	
	GO GO Major Plan- dijam- dijam- eter		Major diam- eter	12	in. 1. 7500 1. 7505 1. 7505 1. 7505	1.8125 1.8133 1.8125 1.8125	1.8125 1.8132 1.8125 1.8125 1.8132	1.8125 1.8131 1.8125 1.8125	1. 8125 1. 8131 1. 8125 1. 8125	1. 8125 1. 8130 1. 8125 1. 8125	1.8750 1.8758 1.8759 1.8759	1.8750 1.8757 1.8750 1.8750	1.8750 1.8756 1.8750 1.8750	1.8751 1.8756 1.8756 1.8756 1.8756	
	for major	F G0	ď	n n	11	in.							1.85020		
	plain ring gages diameter	TON		Semi- finished	10 .	in. 1. 74040 1. 74056 1. 74190 1. 74206	1. 79180 1. 79196 1. 79430 1. 79446	1. 79520 1. 79536 1. 79750 1. 79766	1. 79930 1. 79946 1. 80110 1. 80126	1.80150 1.80166 1.80310 1.80326	1.80290 1.80306 1.80440 1.80456	1. 85430 1. 85446 1. 85680 1. 85696	1.85770 1.85786 1.86900 1.86016	1.86180 1.86196 1.86360 1.86376	1.86400 1.86416 1.86563 1.86576
reads	Z plain r		GO		6	in. 1. 74850 1. 74834 1. 75000 1. 75984	1.81000 1.80984 1.81250 1.81234	1.81020 1.81004 1.81250 1.81234	1.81070 1.81054 1.81250 1.81234	1. 81090 1. 81074 1. 81250 1. 81234	1.81100 1.81084 1.81250 1.81234	1. 87259 1. 87234 1. 87530 1. 87484	1.87270 1.87254 1.87590 1.87484	1.87320 1.87304 1.87500 1.87484	1.87340 1.87324 1.87500 1.87484
external threads		and 2A ss 3A		Minor diam- eter	8	in. 1, 7004 1, 7009 1, 7031 1, 7036	1.6572 1.6580 1.6618 1.6626	1. 6943 1. 6950 1. 6985 1. 6992	1. 7326 1. 7332 1. 7359 1. 7365	1, 7515 1, 7521 1, 7544 1, 7550	1. 7629 1. 7634 1. 7656 1. 7661	1. 7197 1. 7295 1. 7243 1. 7251	1. 7567 1. 7574 1. 7610 1. 7617	1. 7951 1. 7957 1. 7984 1. 7990	1.8140 1.8146 1.8169 1.8175
Gages for ex	gages	LO, classes 1A and NOT GO, class 3.	Pitch diameter	Minus toler- anee gage	7	in. 1. 7112 1. 7108 1. 7139 1. 7135	1. 6933 1. 6928 1. 6979 1. 6974	1. 7214 1. 7209 1. 7256 1. 7251	1, 7506 1, 7502 1, 7539 1, 7535	1. 7650 1. 7646 1. 7679 1. 7675	1. 7737 1. 7733 1. 7764 1. 7760	1. 7558 1. 7553 1. 7604 1. 7599	1. 7838 1. 7833 1. 7881 1. 7876	1.8131 1.8127 1.8164 1.8160	1. 8275 1. 8271 1. 8304 1. 8300
Ga	thread ring ga	LO, ek NoT	Pitch d	Plus toler- anee gage	9	in. 1. 7112 1. 7116 1. 7139 1. 7143	1. 6933 1. 6938 1. 6979 1. 6984	1. 7214 1. 7219 1. 7256 1. 7261	1, 7506 1, 7510 1, 7539 1, 7543	1. 7650 1. 7654 1. 7679 1. 7683	1. 7737 1. 7741 1. 7764 1. 7768	1. 7558 1. 7563 1. 7604 1. 7609	1. 7838 1. 7843 1. 7881 1. 7886	1. 8131 1. 8135 1. 8164 1. 8168	1. 8275 1. 8279 1. 8304 1. 8308
	X th	GO		Minor diam- eter	5	in. 1. 6943 1. 6938 1. 6958 1. 6953	1. 6295 1. 6287 1. 6320 1. 6312	1. 6749 1. 6742 1. 6772 1. 6765	1. 72C5 1. 7199 1. 7223 1. 7217	1.7432 1.7426 1.7448 1.7442	1. 7568 1. 7563 1. 7583 1. 7578	1. 6920 1. 6912 1. 6945 1. 6945	1. 7374 1. 7367 1. 7397 1. 7390	1. 7830 1. 7824 1. 7848 1. 7842	1. 8057 1. 8051 1. 8073 1. 8067
				Pitch diam- eter	4	in. 1. 7160 1. 7156 1. 7175 1. 7175	1, 7017 1, 7012 1, 7042 1, 7037	1. 7290 1. 7285 1. 7313 1. 7308	1. 7566 1. 7562 1. 7584 1. 7580	1. 7703 1. 7699 1. 7719 1. 7715	1. 7785 1. 7781 1. 7800 1. 7796	1. 7642 1. 7637 1. 7667 1. 7662	1. 7915 1. 7910 1. 7938 1. 7933	1.8191 1.8187 1.8209 1.8205	1. 8328 1. 8324 1. 8344 1. 8340
	Class				8	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A
	Series designa- tion				5	UN	UN	ND	UN	UN	ND	ND	NU	UN	UN
	and a second second	Nominal size and	per ineh		-	134-20 or 1,750-20	113/16-6 or 1.8125-6	113/16-8 or 1.8125-8	113/6-12 or 1.8125-12	113/6-16 or 1.8125-16	113/46-20 or 1.8125-20	1.875-6 or	178-8 or 1.875-8	178-12 or 1. 875-12	178–16 or 1. 875–16

1 MARCO | 1 MARCO | 1 MARK | 1 MARK | 1 MARCO | 1 MARCO

178-20 or 1. 875-20	115/16-6 or 1. 9375-6	115/16-8 or 1. 9375-8	115/16-12 or 1. 9375-12	115/16-16 or 1. 9375-16	1.9375-20 or	2. 000-4.5	2.000-6	2.000-8	2.000-12	2. 000-16	2. 000-20 or	2)/8-6 or 2.125-6	2). 125-8 or	2½4-12 or 2, 125-12
N D	UN	UN	N D	UN	UN	UNC	UN	UN	ŭ	ON	UN	DND	ŭ	CN
2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	1B 2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B
1. 83200 1. 83184 1. 82870 1. 82854	1. 78800 1. 78784 1. 77710 1. 77694	1. 82700 1. 82684 1. 81720 1. 81704	1. 86590 1. 86484 1. 85730 1. 85714	1. 88400 1. 88384 1. 87830 1. 87814	1, 89500 1, 89484 1, 89120 1, 89104	1. 79500 1. 79484 1. 79500 1. 79484 1. 78610 1. 78594	1. 85000 1. 84984 1. 83960 1. 83944	1. 89000 1. 88984 1. 87970 1. 87954	1. 92800 1. 92784 1. 91980 1. 91964	1. 94600 1. 94584 1. 94080 1. 94064	1. 95700 1. 95684 1. 95370 1. 95354	1. 97500 1. 97484 1. 96460 1. 96444	2. 01500 2. 01484 2. 00470 2. 00454	2. 05300 2. 05284 2. 04480 2. 04464
1. 82100 1. 82116 1. 82100 1. 82116	1. 75700 1. 75716 1. 75700 1. 75700	1. 89200 1. 80216 1. 80200 1. 80216	1 84700 1. 84716 1. 84700 1. 84716	1. 87000 1. 87016 1. 87000 1. 87016	1. 88300 1. 88316 1. 88300 1. 88316	1. 75900 1. 75916 1. 75900 1. 75916 1. 75916 1. 75916	1.82000 1.82016 1.82000 1.82016	1.86500 1.86516 1.86500 1.86516	1. 91000 1. 91016 1. 91000 1. 91016	1. 93200 1. 93216 1. 93200 1. 93216	1. 94600 1. 94616 1. 94600 1. 94616	1.94500 1.94516 1.94500 1.94516	1. 99000 1. 99016 1. 99000 1. 99016	2.03500 2.03516 2.03500 2.03516
1.8488 1.8492 1.8472 1.8476	1.8403 1.8408 1.8375 1.8380	1. 8663 1. 8688 1. 8638 1. 8643	1. 8913 1. 8917 1. 8893 1. 8897	1. 9089 1. 9043 1. 9021 1. 9025	1. 9114 1. 9118 1. 9098 1. 9102	1. 8743 1. 8748 1. 8681 1. 8686 1. 8650 1. 8655	1, 9028 1, 9033 1, 9000 1, 9005	1. 9289 1. 9294 1. 9264 1. 9269	1. 9538 1. 9542 1. 9518 1. 9522	1. 9664 1. 9668 1. 9646 1. 9650	1, 9739 1, 9743 1, 9723 1, 9727	2. 0280 2. 0285 2. 0251 2. 0256	2. 0540 2. 0545 2. 0515 2. 0520	2. 0788 2. 0792 2. 0768 2. 0772
1. 8488 1. 8484 1. 8472 1. 8468	1.8453 1.8398 1.8375 1.8370	1.8663 1.8658 1.8638 1.8633	1. 8913 1. 8909 1. 8893 1. 8889	1. 9039 1. 9035 1. 9021 1. 9017	1. 9114 1. 9110 1. 9098 1. 9094	1.8743 1.8681 1.8676 1.8650 1.8645	1 9028 1. 9023 1. 9000 1. 8995	1. 9289 1. 9284 1. 9264 1. 9259	1. 9538 1. 9534 1. 9518 1. 9514	1. 9664 1. 9660 1. 9646 1. 9642	1. 9739 1. 9735 1. 9723 1. 9719	2, 0280 2, 0275 2, 0251 2, 0246	2, 0540 2, 0535 2, 0515 2, 0510	2. 0788 2. 0784 2. 0768 2. 0764
1.8705 1.8700 1.8689 1.8684	1. 9125 1. 9117 1. 9097 1. 9089	1. 9204 1. 9197 1. 9179 1. 9172	1. 9274 1. 9268 1. 9254 1. 9248	1. 9310 1. 9304 1. 9292 1. 9286	1. 9331 1. 9326 1. 9315 1. 9310	1. 9705 1. 9697 1. 9643 1. 9635 1. 9612 1. 9604	1. 9750 1. 9742 1. 9722 1. 9714	1. 9830 1. 9823 1. 9805 1. 9798	1. 9899 1. 9893 1. 9879 1. 9873	1. 9935 1. 9929 1. 9917 1. 9911	1. 9956 1. 9951 1. 9940 1. 9935	2, 1002 2, 0994 2, 0973 2, 0965	2. 1081 2. 1074 2. 1056 2. 1049	2. 1149 2. 1129 2. 1123 2. 1123
1.8425 1.8429 1.8425 1.8425	1. 8292 3 1. 8297 5 1. 8292 6 1. 8292 8 1. 8297	1. 8563 1. 8568 1. 8568 1. 8563 1. 8568	1.8834 1.8838 1.8834 1.8834 1.8838	1, 8969 1, 8973 1, 8969 1, 8969	1. 9050 1. 9054 1. 9054 1. 9054	1.8557 1.8562 1.8557 1.8562 1.8562 1.8562	1.8917 1.8922 1.8917 1.8917 1.8922	1. 9188 1. 9193 1. 9193 1. 9193	1. 9459 1. 9463 1. 9459 1. 9463	1. 9594 1. 9598 1. 9594 1. 9598	1. 9675 1. 9679 1. 9675 1. 9679	2. 0167 2. 0172 2. 0167 3. 2. 0172	2. 0438 2. 0438 2. 0438 2. 0438	2. 0709 2. 0713 2. 0709 2. 0713
1.8750 1.8755 1.8756 1.8755	1. 9375 1. 9383 1. 9375 1. 9383	1. 9375 1. 9382 1. 9375 1. 9382	1, 9375 1, 9381 1, 9375 1, 9381	1, 9375 1, 9381 1, 9375 1, 9381	1. 9375 1. 9380 1. 9375 1. 9380	2. 0000 2. 0000 2. 0008 2. 0000 2. 0000	2, 0000 2, 0008 2, 0000 2, 0000	2, 0000 2, 0007 2, 0000 2, 0007	2, 0000 2, 0000 2, 0000 2, 0000	2, 0000 2, 0006 2, 0006 2, 0006	2, 0000 2, 0000 2, 0000 2, 0000	2, 1250 2, 1258 2, 1250 2, 1258 2, 1258	2, 1250 2, 1257 2, 1250 2, 1257 2, 1257	2. 1250 2. 1256 2. 1256 2. 1256 2. 1256
						1.96410		1.97520					2, 10010	
1.86540 1.86556 1.86690 1.86706	1. 91670 1. 91686 1. 91930 1. 91946	1, 92020 1, 92036 1, 92250 1, 92266	1. 92430 1. 92446 1. 92610 1. 92626	1. 92650 1. 92666 1. 92810 1. 92826	1. 92790 1. 92806 1. 92940 1. 92956	1. 96410 1. 96426 1. 97510 1. 97526 1. 97800 1. 97816	1. 97920 1. 97936 1. 98180 1. 98196	1. 98270 1. 98286 1. 98500 1. 98516	1. 98680 1. 98696 1. 98860 1. 98876	1. 98900 1. 98916 1, 99060 1. 99076	1. 99040 1. 99056 1. 99190 1. 99206	2. 10420 2. 10436 2. 10680 2. 10696	2. 10760 2. 10776 2. 11000 2. 11016	2. 11180 2. 11196 2. 11360 2. 11376
1. 87350 1. 87334 1. 87500 1. 87484	1. 93490 1. 93474 1. 93750 1. 93734	1. 93520 1. 93514 1. 93750 1. 93734	1. 93570 1. 93554 1. 93750 1. 93734	1. 93590 1. 93574 1. 93750 1. 93734	1. 93600 1. 93584 1. 93750 1. 93734	1. 99710 1. 99694 1. 99710 1. 99694 2. 00000 1. 99984	1. 99740 1. 99724 2. 00000 1. 99984	1. 99770 1. 99754 2. 00000 1. 99984	1. 99820 1. 99804 2. 00000 1. 99984	1. 99840 1. 99824 2. 00000 1. 99984	1. 99850 1. 99834 2. 00000 1. 99984	2, 12240 2, 12224 2, 12504 2, 12500 2, 12484	2, 12260 2, 12244 2, 12500 2, 12584 2, 12484	2. 12320 2. 12304 2. 12500 2. 12484
1. 8254 1. 8259 1. 8281 1. 8286	1. 7820 1. 7828 1. 7867 1. 7875	1. 8192 1. 8199 1. 8234 1. 8241	1.8575 1.8581 1.8609 1.8615	1. 8764 1. 8770 1. 8794 1. 8800	1, 8878 1, 8883 1, 8905 1, 8910	1. 7904 1. 7912 1. 7952 1. 7960 1. 8005 1. 8013	1.8444 1.8452 1.8492 1.8500	1, 8816 1, 8823 1, 8859 1, 8866	1. 9200 1. 9206 1. 9234 1. 9240	1. 9389 1. 9395 1. 9419 1. 9425	1. 9503 1. 9508 1. 9530 1. 9535	1. 9693 1. 9701 1. 9741 1. 9749	2.0064 2.0071 2.0108 2.0115	2. 0450 2. 0456 2. 0484 2. 0490
1. 8362 1. 8358 1. 8389 1. 8385	1. 8181 1. 8176 1. 8228 1. 8223	1.8463 1.8458 1.8505 1.8500	1. 8755 1. 8751 1. 8789 1. 8785	1.8899 1.8895 1.8929 1.8925	1. 8986 1. 8982 1. 9013 1. 9009	1.8385 1.8380 1.8433 1.8428 1.8486 1.8481	1.8805 1.8800 1.8853 1.8848	1, 9087 1, 9082 1, 9130 1, 9125	1. 9380 1. 9376 1. 9414 1. 9410	1, 9524 1, 9520 1, 9554 1, 9550	1. 9611 1. 9607 1. 9638 1. 9634	2. 0054 2. 0049 2. 0102 2. 0097	2. 0335 2. 0330 2. 0379 2. 0374	2. 0630 2. 0626 2. 0664 2. 0660
1. 8362 1. 8366 1. 8389 1. 8393	1. 8181 1. 8186 1. 8228 1. 8233	1.8463 1.8468 1.8505 1.8510	1.8755 1.8759 1.8789 1.8793	1.8899 1.8903 1.8929 1.8933	1.8986 1.8990 1.9013 1.9017	1, 8385 1, 8390 1, 8433 1, 8438 1, 8486 1, 8486	1.8805 1.8810 1.8853 1.8858	1. 9087 1. 9092 1. 9130 1. 9135	1. 9380 1. 9384 1. 9414 1. 9418	1, 9524 1, 9528 1, 9554 1, 9558	1. 9611 1. 9615 1. 9638 1. 9642	2, 0054 2, 0059 2, 0102 2, 0107	2. 0335 2. 0340 2. 0379 2. 0384	2. 0630 2. 0634 2. 0664 2. 0668
1. 8193 1. 8188 1. 8208 1. 8203	1. 7544 1. 7536 1. 7570 1. 7562	1, 7999 1, 7992 1, 8922 1, 8015	1.8455 1.8449 1.8473 1.8467	1.8682 1.8676 1.8698 1.8692	1. 8818 1. 8813 1. 8833 1. 8828	1, 7566 1, 7558 1, 7566 1, 7568 1, 7595 1, 7595	1.8169 1.8161 1.8195 1.8187	1. 8624 1. 8617 1. 8647 1. 8640	1. 9080 1. 9074 1. 9098 1. 9092	1, 9307 1, 9301 1, 9323 1, 9317	1. 9443 1. 9438 1. 9458 1. 9453	1. 9419 1. 9411 1. 9445 1. 9437	1. 9873 1. 9866 1. 9897 1. 9890	2. 0330 2. 0324 2. 0348 2. 0342
1.8410 1.8406 1.8425 1.8421	1. 8266 1. 8261 1. 8292 1. 8287	1, 8540 1, 8535 1, 8563 1, 8563	1.8816 1.8812 1.8834 1.8830	1.8953 1.8949 1.8969 1.8965	1. 9035 1. 9031 1. 9050 1. 9046	1. 8528 1. 8523 1. 8528 1. 8528 1. 8557 1. 8557	1.8891 1.8886 1.8917 1.8912	1.9165 1.9160 1.9188 1.9183	1. 9441 1. 9437 1. 9459 1. 9455	1. 9578 1. 9574 1. 9594 1. 9590	1. 9660 1. 9656 1. 9675 1. 9671	2. 0141 2. 0136 2. 0167 2. 0162	2. 0414 2. 0409 2. 0438 2. 0433	2. 0691 2. 0687 2. 0709 2. 0705
2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	1A 2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A
UN	UN	UN	UN	UN	UN	UNC	UN	UN	UN	UN	UN	UN	UN	UN
178-20 or 1. 875-20	1,9375-6 or	115/16-8 or 1. 9375-8	115/16-12 or 1. 9375-12	1 ¹⁵ / ₆ -16 or 1. 9375-16	115/6-20 or 1. 9375-20	2-4½ or 2.000-4.5	2, 00C-6	2. 000-8	2-12 or 2. 000-12	2.000-16	2-20 or 2. 000-20	2)/8-6 or 2. 125-6	2),8-8 or 2, 125-8	2, 125–12 or

Table III.12.—Gages for standard thread series, Unified screw threads—Continued

		Nomina Size and threads	perinch		21	2),\$-16 or 2.125-16	2).6-20 or 2. 125-20	2)4-4)5 or 2. 250-4. 5	2)4-6 or 2. 250-6	2½-8 or 2. 250-8	2½-12 or 2. 250-12	2¼-16 or 2. 250-16	2). 250–20	2%-6 or 2. 375-6	238-8 or 2.375-8
		Series designa- tion			20	N	UN	UNC	UN	UN	UN	ND	UN	UN	UN
		Class			61	2B 3B	2B 3B	1B 2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B
	Z plain plug gaves for minor diameter		NoT		18	in. 2. 07100 2. 07084 2. 06580 2. 06584	2. 08200 2. 08184 2. 07870 2. 07854	2. 04500 2. 04484 2. 04500 2. 04484 2. 03610 2. 03594	2. 10000 2. 09984 2. 08960 2. 08944	2. 14000 2. 13984 2. 12970 2. 12954	2. 17800 2. 17784 2. 16980 2. 16964	2. 19600 2. 19584 2. 19680 2. 19064	2. 20700 2. 20684 2. 20370 2. 20354	2. 22600 2. 22584 2. 21460 2. 21444	2. 26500 2. 26484 2. 25470 2. 25454
60	Z plain p for minor		GO		17	$\begin{array}{c} im.\\ 2.\ 05700\\ 2.\ 05716\\ 2.\ 05709\\ 2.\ 05716\\ \end{array}$	2. 07100 2. 07116 2. 07100 2. 07116	2. 00900 2. 00916 2. 00916 2. 00916 2. 00900 2. 00916	2. 07000 2. 07016 2. 07000 2. 07016	2. 11500 2. 11516 2. 11500 2. 11516	2. 16000 2. 16016 2. 16000 2. 16016	2.18200 2.18216 2.18200 2.18216	2. 19600 2. 19616 2. 19600 2. 19616	2. 19500 2. 19516 2. 19500 2. 19516	2. 24000 2. 24016 2. 24000 2. 24016
al thread			Pitch diameter	Plus toler- ance gage	16	<i>in.</i> 2. 0914 2. 0918 2. 0896 2. 0900	2. 0989 2. 0993 2. 0973 2. 0977	2, 1247 2, 1252 2, 1183 2, 1188 2, 1152 2, 1152	2. 1531 2. 1536 2. 1502 2. 1507	2. 1792 2. 1797 2. 1766 2. 1771	2. 2038 2. 2042 2. 2018 2. 2022	2. 2164 2. 2168 2. 2146 2. 2150	2. 2239 2. 2243 2. 2223 2. 2227	2, 2782 2, 2787 2, 2753 2, 2758	2. 3043 2. 3048 2. 3017 2. 3022
for internal threads	gages	н	Pitch d	Minus toler- ance gage	15	in. 2. 0914 2. 0910 2. 0896 2. 0892	2. 0989 2. 0985 2. 0973 2. 0969	2, 1247 2, 1242 2, 1183 2, 1178 2, 1152 2, 1152	2. 1531 2. 1526 2. 1502 2. 1502 2. 1497	2. 1792 2. 1787 2. 1766 2. 1761	2. 2038 2. 2034 2. 2018 2. 2014	2. 2164 2. 2160 2. 2146 2. 2142	2. 2239 2. 2235 2. 2223 2. 2223 2. 2219	2. 2782 2. 2777 2. 2753 2. 2748	2. 3043 2. 3038 2. 3017 2. 3012
Gages f	thread plug			Major diam- eter	14	in. 2.1185 2.1179 2.1179 2.1167	2, 1206 2, 1201 2, 1190 2, 1185	2, 2209 2, 2201 2, 2145 2, 2137 2, 2114 2, 2106	2. 2253 2. 2245 2. 2224 2. 2226	2. 2333 2. 2326 2. 2307 2. 2300	2. 2399 2. 2393 2. 2379 2. 2373	2. 2435 2. 2429 2. 2417 2. 2411	2. 2456 2. 2451 2. 2440 2. 2435	2. 3504 2. 3496 2. 3475 2. 3467	2.3584 2.3577 2.3558 2.3551
	X Pitc diar ete			Pitch diam- eter	13	2. 0844 2. 0844 2. 0848 2. 0844 2. 0844	2. 0925 2. 0929 2. 0925 2. 0929	2, 1057 2, 1062 2, 1067 2, 1062 2, 1067 2, 1067 2, 1062	2. 1417 2. 1422 2. 1422 2. 1417 2. 1422	2.1688 2.1693 2.1688 2.1693	2. 1959 2. 1963 2. 1963 2. 1963	2. 2094 2. 2098 2. 2094 2. 2098	2. 2175 2. 2179 2. 2175 2. 2175	2. 2667 2. 2672 2. 2667 2. 2667 2. 2672	2. 2938 2. 2943 2. 2938 2. 2943
				Major diam- eter	12	in. 2, 1250 2, 1256 2, 1256 2, 1250 2, 1256	2. 1250 2. 1255 2. 1255 2. 1255 2. 1255	2. 2500 2. 2500 2. 2500 2. 2500 2. 2500 2. 2500	2.2508 2.2508 2.2508 2.2508	2, 2500 2, 2507 2, 2500 2, 2500 2, 2507	2, 2500 2, 2506 2, 2506 2, 2506 2, 2506	2. 2500 2. 2506 2. 2506 2. 2506	2. 2500 2. 2505 2. 2505 2. 2506	2.3750 2.3758 2.3750 2.3758	2. 3750 2. 3757 2. 3757 2. 3757 2. 3757
	for major	G0	Un-	finished hot- rolled material	11	in.		2. 21410		2. 22510					
	plain ring gages for major diameter	NOT		Semi- finished	10	in. 2. 11400 2. 11416 2. 11560 2. 11576	2.11540 2.11556 2.11690 2.11706	2. 21410 2. 21426 2. 2251n 2. 22526 2. 22800 2. 22816	2, 22920 2, 22936 2, 23180 2, 23196	2. 23260 2. 23276 2. 23500 2. 23516	2. 23680 2. 23696 2. 23860 2. 23876	2. 23900 2. 23916 2. 24060 2. 24076	2. 24040 2. 24056 2. 24190 2. 24206	2.35410 2.35426 2.35680 2.35696	2. 35760 2. 35776 2. 36000 2. 36016
reads	Z plain ri		GO		6	in. 2. 12340 2. 12324 2. 12500 2. 12484	2. 12350 2. 12334 2. 12500 2. 12484	2. 24710 2. 24694 2. 24700 2. 24694 2. 25040 2. 25984	2. 24740 2. 24724 2. 25000 2. 24984	2. 24760 2. 24744 2. 25000 2. 24984	2. 24820 2. 24804 2. 25000 2. 24984	2. 24840 2. 24824 2. 25000 2. 24984	2. 24850 2. 24834 2. 25000 2. 24984	2. 37230 2. 37214 2. 37500 2. 37484	2. 37260 2. 37244 2. 37500 2. 37484
external threads		and 2A iss 3A		Minor diam- eter	∞	in. 2. 0639 2. 0645 2. 0669 2. 0675	2. 0753 2. 0758 2. 0780 2. 0785	2. 0401 2. 0409 2. 0450 2. 0458 2. 0503 2. 0511	2. 0942 2. 0950 2. 0990 2. 0998	2, 1313 2, 1320 2, 1357 2, 1364	2.1700 2.1706 2.1734 2.1740	2. 1889 2. 1895 2. 1919 2. 1925	2. 2003 2. 2008 2. 2030 2. 2035	2. 2190 2. 2198 2. 2240 2. 2248	2. 2562 2. 2569 2. 2607 2. 2614
Gages for ex	gages	LO, classes 1A and 2A NOT GO, class 3A	Pitch diameter	Minus toler- ance gage	7	in. 2. 0774 2. 0770 2. 0804 2. 0800	2. 0861 2. 0857 2. 0888 2. 0884	2. 0882 2. 0877 2. 0931 2. 0926 2. 0984 2. 0979	2. 1303 2. 1298 2. 1351 2. 1346	2. 1584 2. 1579 2. 1628 2. 1623	2. 1880 2. 1876 2. 1914 2. 1910	2. 2024 2. 2020 2. 2054 2. 2050	2. 2111 2. 2107 2. 2138 2. 2134	2. 2551 2. 2546 2. 2601 2. 2596	2. 2833 2. 2828 2. 2878 2. 2873
Ga	X thread ring	Lo, cl NoT	Pitch d	Plus toler- ance gage	9	in. 2. 0774 2. 0778 2. 0804 2. 0808	2. 0861 2. 0865 2. 0888 2. 0892	2. 0887 2. 0887 2. 0931 2. 0936 2. 0984 2. 0989	2. 1303 2. 1308 2. 1351 2. 1356	2. 1584 2. 1589 2. 1628 2. 1633	2. 1884 2. 1884 2. 1914 2. 1918	2. 2024 2. 2028 2. 2054 2. 2058	2. 2111 2. 2115 2. 2138 2. 2142	2. 2551 2. 2556 2. 2601 2. 2606	2. 2833 2. 2838 2. 2878 2. 2883
	X th	do	Minor	diam- eter	2	in. 2. 0557 2. 0551 2. 0573 2. 0567	2. 0693 2. 0688 2. 0708 2. 0703	2. 0066 2. 0066 2. 0066 2. 0058 2. 0058 2. 0095	2. 0669 2. 0661 2. 0695 2. 0687	2.1123 2.1116 2.11147 2.1147	2. 1580 2. 1574 2. 1598 2. 1592	2. 1807 2. 1801 2. 1823 2. 1817	2. 1943 2. 1938 2. 1958 2. 1953	2. 1918 2. 1910 2. 1945 2. 1937	2. 2373 2. 2356 2. 2397 2. 2390
		0	Pitch	diam- eter	41	in. 2. 0828 2. 0824 2. 0844 2. 0840	2. 0910 2. 0906 2. 0925 2. 0921	2, 1028 2, 1028 2, 1028 2, 1023 2, 1057 2, 1057	2, 1391 2, 1386 2, 1417 2, 1412	2. 1664 2. 1659 2. 1688 2. 1683	2, 1941 2, 1937 2, 1959 2, 1955	2. 2078 2. 2074 2. 2094 2. 2090	2, 2160 2, 2156 2, 2175 2, 2171	2, 2640 2, 2635 2, 2667 2, 2662	2. 2914 2. 2909 2. 2938 2. 2933
	Class				33	2A 3A	2.A 3.A	1A 2A 3A	2A 3A	2.A 3.A	2A 3A	2A 3A	2A 3A	2.A 3.A	2A 3.A
	Series designa- tion				2	UN	UN	UNC	UN	UN	UN	UN	UN	UN	UN
		Nominal size and threads	per inch		1	2).4-16 or 2.125-16	21/8-20 or 2. 125-20	2)4-4)2 or	2)4-6 or 2. 250-6	2).4-8 or 2.250-8	2½-12 or 2.250-12	2½-16 or 2. 250-16	2½–20 or 2. 250–20	238-6 or 2.375-6	2.375–8 or

11 2, 3750 | 2, 3209 | 2, 3451 | 2, 3290 | 2, 3290 | 2, 28500 |

· 9 3128 - 2 3128 - 2, 2948 - 2, 37310 - 2, 36170 -

238–12 or 2.375–12	236-16 or 2. 375-16	238–20 o 2. 375–20	2,500-4	2½-6 or 2.500-6	215-8 or 2.500-8	21/2-12 or 2. 500-12	2½-16 or 2.500-16	2,500-20	25,8-6 or 2. 625-6	25\(\frac{2}{625-8} \) or	258-12 or 2. 625-12	258-16 or 2. 625-16	258–20 or 2.625–20	234-4 or 2. 750-4
UN	ND	UN	UNC	NO	UN	ND	UN	UN	UN	UN	UN	UN	UN	UNC
2B 3B	2B 3B	2B 3B	1B 2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	1B 2B 3B
2. 30300 2. 30284 2. 29480 2. 29464	2. 32100 2. 32084 2. 31580 2. 31564	2. 33200 2. 33184 2. 32870 2. 32854	2. 26700 2. 2684 2. 26700 2. 2684 2. 25940 2. 25924	2.35000 2.34984 2.33960 2.33944	2. 39000 2. 38984 2. 37970 2. 37954	2. 42800 2. 42784 2. 41980 2. 41964	2. 44690 2. 44584 2. 44080 2. 44064	2. 45700 2. 45684 2. 45370 2. 45354	2, 4750 2, 4748 2, 4646 2, 4644	2. 5150 2. 5148 2. 5047 2. 5045	2, 5530 2, 5528 2, 5448 2, 5446	2. 5710 2. 5708 2. 5658 2. 5656	2. 5820 2. 5818 2. 5787 2. 5785	2. 5170 2. 5168 2. 5170 2. 5168 2. 5094 2. 5092
2. 28500 2. 28516 2. 28500 2. 28516	2. 30700 2. 30716 2. 30700 2. 30716	2. 32160 2. 32116 2. 32100 2. 32100	2. 22900 2. 22916 2. 22900 2. 22916 2. 22900 2. 22916	2. 32000 2. 32016 2. 32000 2. 32016	2. 36500 2. 36516 2. 36500 2. 36516	2. 41000 2. 41016 2. 41016 2. 41016	2. 43200 2. 43216 2. 43200 2. 43216	2. 44600 2. 44616 2. 44600 2. 44616	2. 4450 2. 4452 2. 4450 2. 4452	2. 4900 2. 4902 2. 4900 2. 4902	2. 5350 2. 5352 2. 5350 2. 5352	2. 5570 2. 5572 2. 5572 2. 5572	2. 5710 2. 5712 2. 5712 2. 5710 2. 5712	2. 4790 2. 4792 2. 4792 2. 4792 2. 4792 2. 4792
2. 3290 2. 3294 2. 3269 2. 3273	2. 3416 2. 3420 2. 3398 2. 3402	2. 3491 2. 3495 2. 3475 2. 3479	2. 3578 2. 3583 2. 3511 2. 3516 2. 3477 2. 3482	2. 4033 2. 4138 2. 4004 2. 4009	2. 4294 2. 4299 2. 4268 2. 4273	2. 4540 2. 4544 2. 4519 2. 4523	2. 4666 2. 4670 2. 4648 2. 4652	2. 4741 2. 4745 2. 4725 2. 4729	2. 5285 2. 5290 2. 5255 2. 5260	2. 5545 2. 5550 2. 5518 2. 5523	2. 5790 2. 5794 2. 5769 2. 5773	2. 5916 2. 5920 2. 5898 2. 5902	2. 5991 2. 5995 2. 5975 2. 5979	2. 6082 2. 6087 2. 6013 2. 6018 2. 5879 2. 5884
2. 3290 2. 3286 2. 3269 2. 3265	2. 3416 2. 3412 2. 3398 2. 3394	2.3491 2.3487 2.3475 2.3471	2. 3578 2. 3573 2. 3511 2. 3506 2. 3477 2. 3472	2. 4033 2. 4028 2. 4004 2. 3999	2, 4294 2, 4289 2, 4268 2, 4263	2. 4540 2. 4536 2. 4519 2. 4515	2. 4666 2. 4662 2. 4648 2. 4644	2. 4741 2. 4737 2. 4725 2. 4721	2. 5285 2. 5280 2. 5280 2. 5255 2. 5250	2. 5545 2. 5540 2. 5518 2. 5513	2. 5790 2. 5786 2. 5769 2. 5765	2. 5916 2. 5912 2. 5898 2. 5894	2. 5991 2. 5987 2. 5975 2. 5971	2. 6082 2. 6077 2. 6013 2. 6008 2. 5979 2. 5974
2. 3651 2. 3645 2. 3645 2. 3630 2. 3624	2. 3687 2. 3681 2. 3669 2. 3663	2. 3708 2. 3703 2. 3692 2. 3687	2. 4661 2. 4652 2. 4594 2. 4585 2. 4560 2. 4551	2. 4755 2. 4747 2. 4726 2. 4718	2. 4835 2. 4828 2. 4809 2. 4802	2. 4901 2. 4895 2. 4880 2. 4874	2. 4937 2. 4931 2. 4919 2. 4913	2, 4958 2, 4953 2, 4942 2, 4937	2. 5999 2. 5999 2. 5977 2. 5969	2. 6086 2. 6079 2. 6059 2. 6052	2. 6151 2. 6145 2. 6130 2. 6124	2. 6187 2. 6181 2. 6169 2. 6163	2. 6203 2. 6203 2. 6192 2. 6187	2, 7165 2, 7166 2, 7096 2, 7087 2, 7062 2, 7063
2. 3209 2. 3213 2. 3213 2. 3213	2. 3344 2. 3348 2. 3344 2. 3348	2. 3425 2. 3429 2. 3425 2. 3425 2. 3429	2. 3376 2. 3381 2. 3376 2. 3381 2. 3376 2. 3381	2. 3917 2. 3922 2. 3917 2. 3922	2. 4188 2. 4193 2. 4188 2. 4193	2. 4459 2. 4463 2. 4459 2. 4463	2. 4594 2. 4598 2. 4594 2. 4598	2. 4675 2. 4679 2. 4675 2. 4675	2. 5167 2. 5172 2. 5167 2. 5167 2. 5172	2. 5438 2. 5443 2. 5438 2. 5438 2. 5443	2. 5709 2. 5713 2. 5709 2. 5713	2. 5844 2. 5848 2. 5844 2. 5848	2, 5925 2, 5929 2, 5929 2, 5925 2, 5929	2. 5876 2. 5881 2. 5881 2. 5881 2. 5881 2. 5881
2.3750 2.3756 2.3756 2.3756	2. 3750 2. 3756 2. 3756 2. 3750 2. 3756	2.3750 2.3755 2.3755 2.3750 2.3755	22.2.2.200 22.2.2.200 22.2.2.200 22.2.200 200	2. 5000 2. 5008 2. 5000 2. 5000	2. 5000 2. 5007 2. 5000 2. 5000	2. 5000 2. 5006 2. 5000 2. 5006	2. 5000 2. 5006 2. 5000 2. 5000	2. 5000 2. 5005 2. 5000 2. 5000	2. 6250 2. 6258 2. 6258 2. 6250 2. 6258	2. 6250 2. 6257 2. 6250 2. 6257	2. 6250 2. 6256 2. 6256 2. 6256	2. 6250 2. 6256 2. 6256 2. 6250 2. 6256	2. 6250 2. 6255 2. 6255 2. 6250 2. 6255	2. 7500 2. 7509 2. 7509 2. 7509 2. 7509
			2.46120		2. 47510									2.7111
2. 36170 2. 36186 2. 36360 2. 36376	2. 36390 2. 36406 2. 36760 2. 36576	2. 36540 2. 36556 2. 36690 2. 36706	2. 46120 2. 47310 2. 47310 2. 47326 2. 47620 2. 47636	2. 47910 2. 47926 2. 48180 2. 48196	2. 48260 2. 48276 2. 48500 2. 48516	2. 48670 2. 48686 2. 48860 2. 48876	2. 48890 2. 48906 2. 49060 2. 49076	2, 49040 2, 49056 2, 49190 2, 49206	2. 6041 2. 6043 2. 6068 2. 6070	2. 6075 2. 6077 2. 6100 2. 6102	2. 6117 2. 6119 2. 6136 2. 6138	2. 6139 2. 6141 2. 6156 2. 6158	2. 6154 2. 6156 2. 6169 2. 6171	2, 7111 2, 7113 2, 7230 2, 7232 2, 7262 2, 7264
2. 37310 2. 37294 2. 37500 2. 37484	2. 37330 2. 37314 2. 37500 2. 37484	2. 37350 2. 37334 2. 37500 2. 37484	2. 49690 2. 49674 2. 49690 2. 49674 2. 50000 2. 49984	2. 49730 2. 49714 2. 50000 2. 49984	2. 49760 2. 49744 2. 50000 2. 49984	2. 49810 2. 49794 2. 50000 2. 49984	2. 49830 2. 49814 2. 50000 2. 49984	2. 49850 2. 49834 2. 50000 2. 49984	2. 6223 2. 6221 2. 6250 2. 6248	2. 6225 2. 6223 2. 6250 2. 6250	2. 6231 2. 6229 2. 6250 2. 6248	2. 6233 2. 6231 2. 6250 2. 6248	2. 6235 2. 6233 2. 6250 2. 6248	2.7468 2.7466 2.7466 2.7466 2.7466 2.7500 2.7500
2. 2948 2. 2954 2. 2983 2. 2989	2. 3137 2. 3143 2. 3168 2. 3174	2. 3251 2. 3256 2. 3279 2. 3284	2. 2649 2. 2658 2. 2700 2. 2709 2. 2757 2. 2766	2. 3439 2. 3447 2. 3489 2. 3497	2.3811 2.3818 2.3856 2.3863	2. 4198 2. 4204 2. 4233 2. 4239	2. 4387 2. 4393 2. 4418 2. 4424	2. 4501 2. 4506 2. 4529 2. 4534	2. 4689 2. 4697 2. 4738 2. 4746	2. 5060 2. 5067 2. 5105 2. 5112	2, 5448 2, 5454 2, 5483 2, 5489	2. 5637 2. 5643 2. 5668 2. 5674	2. 5751 2. 5756 2. 5779 2. 5784	2. 5145 2. 5154 2. 5154 2. 5207 2. 5256 2. 5265
2.3128 2.3124 2.3163 2.3169	2. 3272 2. 3268 2. 3303 2. 3299	2. 3359 2. 3355 2. 3387 2. 3383	2. 3190 2. 3185 2. 3241 2. 3236 2. 3298 2. 3293	2. 3800 2. 3795 2. 3850 2. 3845	2. 4082 2. 4077 2. 4127 2. 4122	2. 4378 2. 4374 2. 4413 2. 4409	2. 4522 2. 4518 2. 4553 2. 4549	2. 4609 2. 4605 2. 4637 2. 4633	2. 5050 2. 5045 2. 5099 2. 5094	2. 5331 2. 5326 2. 5376 2. 5371	2. 5628 2. 5624 2. 5663 2. 5659	2. 5772 2. 5768 2. 5803 2. 5799	2, 5859 2, 5855 2, 5887 2, 5883	2. 5686 2. 5681 2. 5739 2. 5734 2. 5797 2. 5792
2. 3128 2. 3132 2. 3163 2. 3167	2. 3272 2. 3276 2. 3303 2. 3307	2. 3359 2. 3363 2. 3387 2. 3391	2. 3190 2. 3195 2. 3241 2. 3246 2. 3298 2. 3303	2.3800 2.3805 2.3850 2.3850	2. 4082 2. 4087 2. 4127 2. 4132	2. 4378 2. 4382 2. 4413 2. 4417	2, 4522 2, 4526 2, 4553 2, 4557 2, 4557	2. 4609 2. 4613 2. 4637 2. 4641	2. 5050 2. 5055 2. 5099 2. 5104	2. 5331 2. 5336 2. 5376 2. 5381	2. 5628 2. 5632 2. 5663 2. 5667	2. 5772 2. 5776 2. 5803 2. 5807	2, 5859 2, 5863 2, 5887 2, 5891	2. 5686 2. 5691 2. 5739 2. 5744 2. 5797 2. 5802
2, 2829 2, 2823 2, 2848 2, 2842	2. 3056 2. 3050 2. 3073 2. 3067	2.3193 2.3188 2.3208 2.3203	2. 2262 2. 2253 2. 2262 2. 2253 2. 2293 2. 2293	2.3168 2.3160 2.3195 2.3187	2. 3623 2. 3616 2. 3647 2. 3640	2. 4079 2. 4073 2. 4098 2. 4092	2. 4306 2. 4300 2. 4323 2. 4317	2. 4443 2. 4438 2. 4458 2. 4453	2. 4418 2. 4410 2. 4445 2. 4437	2. 4872 2. 4865 2. 4897 2. 4890	2. 5329 2. 5323 2. 5348 2. 5342	2. 5556 2. 5550 2. 5573 2. 5573 2. 5567	2, 5693 2, 5688 2, 5708 2, 5703	2. 4761 2. 4752 2. 4761 2. 4752 2. 4793 2. 4794
2. 3190 2. 3186 2. 3209 2. 3205	2. 3327 2. 3323 2. 3344 2. 3340	2. 3410 2. 3466 2. 3425 2. 3421	2. 3345 2. 3340 2. 3345 2. 3340 2. 3376 2. 3371	2.3890 2.3885 2.3917 2.3912	2. 4164 2. 4159 2. 4188 2. 4183	2. 4440 2. 4436 2. 4459 2. 4455	2. 4577 2. 4573 2. 4594 2. 4590	2. 4660 2. 4656 2. 4675 2. 4671	2. 5140 2. 5135 2. 5167 2. 5162	2. 5413 2. 5408 2. 5438 2. 5433	2. 5690 2. 5686 2. 5709 2. 5705	2. 5827 2. 5823 2. 5844 2. 5840	2. 5910 2. 5906 2. 5925 2. 5921 2. 5921	2. 5844 2. 5839 2. 5844 2. 5839 2. 5876 2. 5871
2A 3A	2A 3A	2A 3A	1A 2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	1A 2A 3A
UN	UN	UN	UNC	UN	UN	UN	UN	UN	UN	UN	UN	UN	UN	UNC
236–12 or 2.375–12	23%-16 or 2. 375-16	23/8-20 or 2.375-20	2½-4 or 2.530-4	2½-6 or 2. 500-6	2½-8 or 2.500-8	2½-12 or 2. 500-12	$2\frac{1}{2}$ 2-16 or 2. 500-16	2½-20 or 2. 500-20	258-6 or 2. 625-6	258-8 or 2. 625-8	258-12 or 2. 625-12	25,8–16 or 2. 625–16	254-20 or 2. 625-20	234-4 or 2. 750-4

Table III.12.—Gages for standard thread series, Unified screw threads—Continued

		Nominal size ond	threads per inch		21	234-6 or 2.750-6	234-8 or 2.750-8	234-12 or 2. 750-12	234–16 or 2. 750–16	2.750-20	278-6 or 2.875-6	278-8 or 2.875-8	278-12 or 2. 875-12	278-16 2.875-16	27.6-20 2.875-20
		Series	tion		20	ti N	N CZ	N.O.	UN	ND	UN	UN	UN	NN	UN
		Class			19	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B
	Z plain plug gages for minor diameter		NoT G0		18	in. 2. 5000 2. 5998 2. 5896 2, 5894	2. 6400 2. 6398 2. 6297 2. 6295	2. 6780 2. 6778 2. 6698 2. 6696	2. 6960 2. 6958 2. 6908 2. 6906	2. 7070 2. 7068 2. 7037 2. 7035	2. 7250 2. 7248 2. 7146 2. 7144	2. 7650 2. 7648 2. 7547 2. 7545	2. 8030 2. 8028 2. 7948 2. 7946	2. 8210 2. 8208 2. 8158 2. 8156	2.8320 2.8318 2.8287 2.8285
70	Z plain p for minor		GO		17	in. 2. 5700 2. 5702 2. 5702 2. 5702	2. 6150 2. 6152 2. 6150 2. 6150 2. 6152	2. 6600 2. 6602 2. 6600 2. 6602	2. 6820 2. 6822 2. 6820 2. 6820	2. 6960 2. 6962 2. 6960 2. 6962	2. 6950 2. 6952 2. 6950 2. 6952	2. 7400 2. 7402 2. 7400 2. 7402	2, 7850 2, 7852 2, 7850 2, 7852	2. 8070 2. 8072 2. 8070 2. 8072	2. 8210 2. 8212 2. 8210 2. 8210
Gages for internal threads			Pitch diameter	Plus toler- anee gage	16	in. 2. 6536 2. 6541 2. 6541 2. 6506 2. 6511	2. 6796 2. 6801 2. 6769 2. 6774	2. 7040 2. 7044 2. 7019 2. 7023	2.7166 2.7170 2.7148 2.7148	2. 7241 2. 7245 2. 7225 2. 7229	2. 7787 2. 7792 2. 7757 2. 7762	2. 8048 2. 8053 2. 8020 2. 8025	2.8291 2.8295 2.8271 2.8275	2.8417 2.8421 2.8399 2.8403	2. 8493 2. 8497 2. 8476 2. 8480
or interna	gages	Ш	Pitch d	Minus toler- anee gage	15	<i>im.</i> 2. 6536 2. 6531 2. 6506 2. 6501	2. 6796 2. 6791 2. 6769 2. 6764	2. 7040 2. 7036 2. 7019 2. 7015	2. 7166 2. 7162 2. 7148 2. 7144	2. 7241 2. 7237 2. 7225 2. 7225 2. 7221	2. 7787 2. 7782 2. 7757 2. 7752	2.8048 2.8043 2.8020 2.8015	2. 8291 2. 8287 2. 8271 2. 8267	2. 8417 2. 8413 2. 8399 2. 8395	2. 8493 2. 8489 2. 8476 2. 8472
Gages fo	thread plug			Major diam- eter	14	in. 2, 7258 2, 7250 2, 7228 2, 7220	2. 7337 2. 7330 2. 7310 2. 7303	2. 7401 2. 7395 2. 7380 2. 7374	2. 7437 2. 7431 2. 7419 2. 7413	2. 7458 2. 7453 2. 7442 2. 7437	2.8509 2.8501 2.8479 2.8471	2. 8589 2. 8582 2. 8561 2. 8561	2. 8652 2. 8646 2. 8632 2. 8626	2. 8688 2. 8682 2. 8670 2. 8664	2. 8710 2. 8705 2. 8693 2. 8688
	X th	GO		Piteh diam- eter	13	in. 2. 6417 2. 6422 2. 6417 2. 6422	2. 6688 2. 6693 2. 6688 2. 6693	2. 6959 2. 6963 2. 6959 2. 6963	2. 7094 2. 7098 2. 7094 2. 7098	2. 7175 2. 7179 2. 7175 2. 7175	2. 7667 2. 7672 2. 7667 2. 7667 2. 7672	2, 7938 2, 7943 2, 7938 2, 7938	2. 8209 2. 8213 2. 8209 2. 8213	2.8344 2.8348 2.8344 2.8344 2.8348	2. 8425 2. 8429 2. 8425 2. 8429
		9		Major diam- eter	12	in. 2. 7500 2. 7508 2. 7508 2. 7508	2. 7500 2. 7507 2. 7500 2. 7500 2. 7507	2. 7500 2. 7506 2. 7500 2. 7506	2. 7500 2. 7506 2. 7500 2. 7506	2, 7500 2, 7505 2, 7506 2, 7506 2, 7505	2.8750 2.8758 2.8750 2.8750	2.8750 2.8757 2.8750 2.8750 2.8757	2.8750 2.8756 2.8756 2.8750 2.8756	2.8750 2.8756 2.8756 2.8750 2.8756	2. 8750 2. 8755 2. 8755 2. 8756
	for major	, G0	Un-	finished hot- rolled material	11	in.	2. 7250								
	plain ring gages for major diameter	NOT		Semi- finished	10	in. 2.7291 2.7293 2.7318 2.7320	2, 7325 2, 7327 2, 7350 2, 7352	2. 7367 2. 7369 2. 7386 2. 7386	2. 7389 2. 7391 2. 7406 2. 7408	2. 7401 2. 7406 2. 7419 2. 7421	2, 8540 2, 8542 2, 8568 2, 8568	2. 8575 2. 8577 2. 8600 2. 8602	2. 8617 2. 8619 2. 8636 2. 8638	2. 8639 2. 8641 2. 8656 2. 8658	2. 8653 2. 8655 2. 8669 2. 8671
reads	Z plain r		GO		6	in. 2. 7473 2. 7471 2. 7471 2. 7500 2. 7498	2. 7475 2. 7473 2. 7500 2. 7498	2. 7481 2. 7479 2. 7500 2. 7498	2. 7483 2. 7481 2. 7500 2. 7498	2. 7485 2. 7483 2. 7500 2. 7498	2. 8722 2. 8720 2. 8750 2. 8748	2. 8725 2. 8723 2. 8750 2. 8748	2. 8731 2. 8729 2. 8750 2. 8748	2. 8733 2. 8731 2. 8750 2. 8748	2. 8734 2. 8732 2. 8750 2. 8748
external threads		and 2A ss 3A		Minor diam- eter	œ	in. 2. 5938 2. 5946 2. 5988 2. 5996	2. 6309 2. 6316 2. 6354 2. 6361	2. 6698 2. 6704 2. 6733 2. 6739	2. 6887 2. 6893 2. 6918 2. 6924	2. 7001 2. 7006 2. 7029 2. 7034	2, 7186 2, 7194 2, 7237 2, 7245	2, 7558 2, 7565 2, 7604 2, 7611	2. 7947 2. 7953 2. 7982 2. 7988	2.8136 2.8142 2.8167 2.8167	2. 8249 2. 8254 2. 8278 2. 8283
Gages for ex	gages	LO, elasses 1A and 2A NOT GO, elass 3A	Pitch diameter	Minus toler- anee gage	7	in. 2. 6299 2. 6294 2. 6349 2. 6344	2, 6580 2, 6575 2, 6625 2, 6620	2. 6878 2. 6874 2. 6913 2. 6909	2. 7022 2. 7018 2. 7053 2. 7049	2, 7109 2, 7105 2, 7137 2, 7133	2. 7547 2. 7542 2. 7593 2. 7593	2, 7829 2, 7824 2, 7875 2, 7870	2. 8127 2. 8123 2. 8162 2. 8158	2. 8271 2. 8267 2. 8302 2. 8298	2. 8357 2. 8353 2. 8386 2. 8386
Ga	thread ring	LO, el NOT	Pitch d	Plus toler- ance gage	9	in. 2. 6299 2. 6304 2. 6349 2. 6354	2. 6580 2. 6585 2. 6625 2. 6620 2. 6630	2. 6878 2. 6882 2. 6913 2. 6917	2. 7022 2. 7026 2. 7053 2. 7057	2. 7109 2. 7113 2. 7137 2. 7141	2. 7547 2. 7552 2. 7598 2. 7603	2. 7829 2. 7834 2. 7875 2. 7880	2.8127 2.8131 2.8162 2.8166	2. 8271 2. 8275 2. 8302 2. 8306	2. 8357 2. 8361 2. 8386 2. 8390
	X th	90		Minor diam- eter	5	in. 2. 5668 2. 5660 2. 5695 2. 5687	2, 6122 2, 6115 2, 6147 2, 6140	2. 6579 2. 6573 2. 6598 2. 6592	2. 6806 2. 6800 2. 6823 2. 6817	2. 6943 2. 6938 2. 6958 2. 6958	2. 6917 2. 6909 2. 6945 2. 6945	2, 7372 2, 7365 2, 7397 2, 7390	2. 7829 2. 7823 2. 7848 2. 7842	2.8056 2.8050 2.8073 2.8067	2. 8192 2. 8187 2. 8208 2. 8203
		9		Pitch diam- eter	4	in. 2. 6390 2. 6385 2. 6417 2. 6412	2. 6663 2. 6658 2. 6688 2. 6683	2. 6940 2. 6936 2. 6959 2. 6955	2. 7077 2. 7073 2. 7094 2. 7090	2, 7160 2, 7156 2, 7175 2, 7171	2, 7639 2, 7634 2, 7667 2, 7662	2, 7913 2, 7908 2, 7938 2, 7933	2. 8190 2. 8186 2. 8209 2. 8205	2. 8327 2. 8323 2. 8344 2. 8340	2.8409 2.8405 2.8425 2.8421
	Class				83	2A 3.A	2.4	2.A 3.A	2A 3.A	2.A 3.A	2A 3A	2.A 3.A	2A 3A	2A 3A	2A 3A
	Series designa- tion				63	UN	ND	ND	N D	ND	N.S	ND	ND	NU	ND
	Nominal Seric size and design threads thor				1	23,4-6 or 2,750 ·6	234-8 or 2.750-8	234-12 or 2. 750-12	23.4-16 or 2.750-16	234-20 or 2. 750-20	27/6-6 or 2.875-6	2.875-8 or	278-12 or 2. 875-12	278-16 or 2.875-16	276-20 or 2. 875-20

3-4 or 3.000-4	3-6 or 3.000-6	3-8 or 3.000-8	3. 000–12	3-16 or 3. 000-16	3-20 or 3. 000-20	31/8-6 or 3. 125-6	3½-8 or 3:125-8	3½-12 or 3.125-12	3½-16 or 3. 125–16	3)4-4 or 3. 250-4	3.250-6 or	3.250-8 or	3)4-12 or 3, 250-12	3, 250-16
UNG	ND	UN	UN	UN	UN	NO	UN	UN	UN	UNC	ND	UN	UN	UN
1B 2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	1B 2B 3B	2B 3B	2B 3B	2B 3B	2B 3B
2. 7670 2. 7668 2. 7668 2. 7668 2. 7594 2. 7594	2. 8500 2. 8498 2. 8396 2. 8394	2. 8900 2. 8898 2. 8797 2. 8795	2. 9280 2. 9278 2. 9198 2. 9196	2. 9460 2. 9458 2. 9408 2. 9406	2. 9570 2. 9568 2. 9537 2. 9535	2. 9750 2. 9748 2. 9646 2. 9644	3. 0150 3. 0148 3. 0047 3. 0045	3. 0530 3. 0528 3. 0448 3. 0446	3. 0710 3. 0708 3. 0658 3. 0656	3.0170 3.0170 3.0168 3.0094 3.0094	3. 1000 3. 0998 3. 0896 3. 0894	3. 1400 3. 1398 3. 1297 3. 1295	3.1780 3.1778 3.1698 3.1696	3.1960 3.1958 3.1908 3.1906
2. 7290 2. 7292 2. 7290 2. 7290 2. 7290 2. 7290	2. 8200 2. 8202 2. 8200 2. 8200	2.8650 2.8652 2.8650 2.8650	2. 9100 2. 9102 2. 9100 2. 9102	2. 9320 2. 9322 2. 9320 2. 9322	2. 9460 2. 9462 2. 9460 2. 9462	2. 9450 2. 9452 2. 9450 2. 9452	2. 9900 2. 9902 2. 9900 2. 9902	3. 0350 3. 0352 3. 0350 3. 0352	3. 0570 3. 0572 3. 0572 3. 0572	2.9790 2.9790 2.9790 2.9790 2.9790 9792	3. 0700 3. 0702 3. 0700 3. 0702	3, 1150 3, 1152 3, 1150 3, 1150	3. 1600 3. 1602 3. 1600 3. 1600	3, 1820 3, 1822 3, 1820 3, 1820
2.8585 2.8590 2.8515 2.8520 2.8480 2.8485	2. 9038 2. 9043 2. 9008 2. 9013	2. 9299 2. 9304 2. 9271 2. 9276	2. 9541 2. 9545 2. 9521 2. 9525	2. 9667 2. 9671 2. 9649 2. 9653	2. 9743 2. 9747 2. 9726 2. 9730	3. 0289 3. 0294 3. 0259 3. 0264	3. 0550 3. 0555 3. 0522 3. 0527	3.0791 3.0795 3.0771 3.0775	3. 0917 3. 0921 3. 0899 3. 0903	3, 1088 3, 1093 3, 1017 3, 1022 3, 0982 3, 0987	3, 1540 3, 1545 3, 1509 3, 1514	3.1801 3.1806 3.1773 3.1778	3. 2041 3. 2045 3. 2021 3. 2025	3. 2167 3. 2171 3. 2149 3. 2153
2.8586 2.8580 2.8515 2.8516 2.8510 2.8475	2. 9038 2. 9033 2. 9008 2. 9003	2. 9299 2. 9294 2. 9271 2. 9266	2. 9541 2. 9537 2. 9521 2. 9517	2. 9663 2. 9663 2. 9649 2. 9645	2. 9743 2. 9739 2. 9726 2. 9722	3. 0289 3. 0284 3. 0259 3. 0254	3. 0550 3. 0545 3. 0522 3. 0517	3.0791 3.0787 3.0771 3.0767	3.0917 3.0913 3.0899 3.0895	3. 1088 3. 1083 3. 1017 3. 1012 3. 0982 3. 0977	3, 1540 3, 1535 3, 1509 3, 1504	3.1801 3.1796 3.1773 3.1768	3. 2041 3. 2037 3. 2021 3. 2017	3.2167 3.2163 3.2149 3.2145
2. 9668 2. 9659 2. 9589 2. 9589 2. 9563	2. 9760 2. 9752 2. 9730 2. 9722	2. 9840 2. 9833 2. 9812 2. 9805	2. 9902 2. 9896 2. 9882 2. 9876	2. 9938 2. 9932 2. 9920 2. 9914	2. 9960 2. 9955 2. 9943 2. 9938	3. 1011 3. 1003 3. 0981 3. 0973	3. 1091 3. 1084 3. 1063 3. 1056	3.1152 3.1146 3.1132 3.1132	3.1188 3.1182 3.1170 3.1164	3, 2171 3, 2162 3, 2100 3, 2091 3, 2065 3, 2056	3, 2262 3, 2254 3, 2231 3, 2233	3, 2342 3, 2335 3, 2314 3, 2307	3, 2402 3, 2396 3, 2382 3, 2376	3, 2438 3, 2432 3, 2430 3, 2414
2.8381 2.8381 2.8376 2.8381 2.8381 2.8381	2. 8917 2. 8922 2. 8917 2. 8922	2. 9188 2. 9193 2. 9188 2. 9193	2. 9463 2. 9463 2. 9463 2. 9463	2. 9594 2. 9598 2. 9594 2. 9598	2. 9675 2. 9679 2. 9675 2. 9679	3. 0167 3. 0172 3. 0167 3. 0167	3. 0443 3. 0443 3. 0438 3. 0443	3. 0709 3. 0713 3. 0709 3. 0713	3.0844 3.0848 3.0844 3.0844	3. 0876 3. 0881 3. 0876 3. 0881 3. 0876 3. 0881	3. 1417 3. 1422 3. 1417 3. 1417	3. 1688 3. 1693 3. 1693 3. 1693	3. 1959 3. 1963 3. 1959 3. 1963	3. 2094 3. 2098 3. 2094 3. 2098
3. 0000 3. 0000 3. 0000 3. 0000 3. 0000	3. 0000 3. 0008 3. 0000 3. 0008	3,0000 3,0007 3,0000 3,0007	3, 0000 3, 0006 3, 0000 3, 0006	3, 0000 3, 0006 3, 0006 3, 0006	3, 0000 3, 0005 3, 0000 3, 0005	3. 1250 3. 1258 3. 1258 3. 1258	3, 1250 3, 1257 3, 1250 3, 1250 3, 1257	3, 1250 3, 1256 3, 1256 3, 1256 3, 1256	3, 1250 3, 1256 3, 1256 3, 1256 3, 1256	3, 2500 3, 2509 3, 2509 3, 2509 3, 2509 3, 2509	3, 2500 3, 2508 3, 2508 3, 2508	3, 2500 3, 2507 3, 2500 3, 2500 3, 2507	3. 2500 3. 2506 3. 2506 3. 2506	3. 2500 3. 2506 3. 2506 3. 2506
2.9611		2. 9749 2. 9751								3, 2110		3, 2249		
2. 9611 2. 9613 2. 9730 2. 9732 2. 9762 2. 9764	2. 9790 2. 9792 2. 9818 2. 9820	2. 9824 2. 9826 2. 9850 2. 9852	2. 9867 2. 9869 2. 9886 2. 9886	2. 9889 2. 9891 2. 9906 2. 9908	2. 9903 2. 9905 2. 9919 2. 9921	3. 1040 3. 1042 3. 1068 3. 1070	3. 1074 3. 1076 3. 1100 3. 1102	3.1117 3.1119 3.1136 3.1138	3.1139 3.1141 3.1156 3.1158	3, 2110 3, 2112 3, 2229 3, 2231 3, 2262 3, 2263	3, 2290 3, 2292 3, 2318 3, 2320	3, 2324 3, 2326 3, 2350 3, 2352	3, 2367 3, 2369 3, 2386 3, 2386	3. 2389 3. 2391 3. 2406 3. 2408
2. 9968 2. 9968 2. 9966 3. 0000 2. 9998	2. 9972 2. 9970 3. 0000 2. 9998	2. 9974 2. 9972 3. 0000 2. 9998	2. 9981 2. 9979 3. 0000 2. 9998	2. 9983 2. 9981 3. 0000 2. 9998	2. 9984 2. 9982 3. 0000 2. 9998	3, 1222 3, 1220 3, 1250 3, 1250	3, 1224 3, 1222 3, 1250 3, 1258	3, 1231 3, 1229 3, 1250 3, 1250	3, 1233 3, 1231 3, 1250 3, 1250 3, 1248	3.2467 3.2465 3.2467 3.2465 3.2465 3.2500 3.2498	3, 2472 3, 2470 3, 2500 3, 2498	3, 2474 3, 2472 3, 2500 3, 2498	3, 2481 3, 2479 3, 2500 3, 2498	3, 2483 3, 2481 3, 2500 3, 2498
2. 7642 2. 7651 2. 7696 2. 7705 2. 7755 2. 7754	2. 8435 2. 8443 2. 8486 2. 8494	2, 8806 2, 8813 2, 8853 2, 8860	2. 9197 2. 9203 2. 9232 2. 9238	2. 9386 2. 9392 2. 9417 2. 9423	2. 9499 2. 9504 2. 9528 2. 9533	2, 9684 2, 9692 2, 9736 2, 9744	3, 0055 3, 0062 3, 0103 3, 0110	3. 0447 3. 0453 3. 0482 3. 0488	3. 0636 3. 0642 3. 0667 3. 0673	3. 0139 3. 0148 3. 0193 3. 0202 3. 0253 3. 0262	3. 0933 3. 0941 3. 0985 3. 0993	3. 1304 3. 1311 3. 1352 3. 1359	3.1697 3.1703 3.1732 3.1732	3. 1886 3. 1892 3. 1917 3. 1923
2. 8183 2. 8178 2. 8237 2. 8232 2. 8296 2. 8296	2. 8796 2. 8791 2. 8847 2. 8842	2. 9077 2. 9072 2. 9124 2. 9119	2. 9377 2. 9373 2. 9412 2. 9408	2. 9521 2. 9517 2. 9552 2. 9548	2. 9607 2. 9603 2. 9636 2. 9632	3.0045 3.0040 3.0097 3.0092	3. 0326 3. 0321 3. 0374 3. 0369	3. 0627 3. 0623 3. 0662 3. 0658	3. 0771 3. 0767 3. 0802 3. 0798	3. 0680 3. 0675 3. 0734 3. 0729 3. 0794 3. 0799	3, 1294 3, 1289 3, 1346 3, 1341	3.1575 3.1570 3.1623 3.1618	3.1877 3.1873 3.1912 3.1908	3. 2021 3. 2017 3. 2052 3. 2048
2. 8183 2. 8237 2. 8242 2. 8296 2. 8296 2. 8301	2. 8796 2. 8801 2. 8847 2. 8852	2. 9077 2. 9082 2. 9124 2. 9129	2, 9377 2, 9381 2, 9412 2, 9416	2. 9521 2. 9525 2. 9552 2. 9552 2. 9556	2. 9607 2. 9611 2. 9636 2. 9640	3, 0045 3, 0050 3, 0097 3, 0102	3. 0326 3. 0331 3. 0374 3. 0379	3. 0627 3. 0631 3. 0662 3. 0666	3. 0771 3. 0775 3. 0802 3. 0806	3.0680 3.0685 3.0734 3.0739 3.0794 3.0794	3, 1294 3, 1299 3, 1346 3, 1351	3, 1575 3, 1580 3, 1623 3, 1628	3. 1877 3. 1881 3. 1912 3. 1916	3, 2021 3, 2025 3, 2052 3, 2056
2, 7261 2, 7252 2, 7261 2, 7252 2, 7293 2, 7293	2.8167 2.8159 2.8195 2.8187	2.8621 2.8614 2.8647 2.8640	2, 9079 2, 9073 2, 9098 2, 9092	2. 9306 2. 9300 2. 9323 2. 9317	2, 9442 2, 9437 2, 9458 2, 9453	2. 9417 2. 9409 2. 9445 2. 9437	2, 9871 2, 9864 2, 9897 2, 9890	3, 0329 3, 0323 3, 0348 3, 0342	3, 0556 3, 0550 3, 0573 3, 0567	2. 9760 2. 9751 2. 9751 2. 9751 2. 9793 2. 9784	3. 0667 3. 0659 3. 0695 3. 0687	3. 1121 3. 1114 3. 1147 3. 1140	3. 1579 3. 1573 3. 1598 3. 1592	3. 1806 3. 1800 3. 1823 3. 1817
2, 8344 2, 8339 2, 8344 2, 8339 2, 8376 2, 8371	2.8889 2.8884 2.8917 2.8912	2, 9162 2, 9157 2, 9188 2, 9183	2. 9440 2. 9436 2. 9459 2. 9455	2. 9577 2. 9573 2. 9594 2. 9590	2.9659 2.9655 2.9675 2.9671	3, 0139 3, 0134 3, 0167 3, 0162	3. 0412 3. 0407 3. 0438 3. 0433	3.0690 3.0686 3.0709 3.0705	3. 0827 3. 0823 3. 0844 3. 0840	3. 0843 3. 0838 3. 0843 3. 0843 3. 0876 3. 0871	3, 1389 3, 1384 3, 1417 3, 1412	3.1662 3.1657 3.1688 3.1683	3. 1940 3. 1936 3. 1959 3. 1955	3, 2077 3, 2073 3, 2094 3, 2090
1A 2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	1A 2A 3A	2A 3A	2A 3A	2A 3A	2A 3A
UNC	ŊŊ	ND	UN	UN	UN	UN	ŭN	UN	UN	UNC	UN	ND	ND	UN
3.000-4	3-6 or 3. 000-6	3-8 or 3. 000-8	3-12 or 3. 000-12	3-16 or 3.000-16	3-20 or 3. 000-20	3½~6 or 3.125~6	3½-8 or 3. 125-8	3½-12 or 3. 125-12	3½-16 or 3.125-16	3,250-4	3)4-6 or 3.250-6	3.44-8 or 3.250-8	3)4–12 or 3, 250–12	3½-16 or 3. 250-16

Table III.12.—Gages for standard thread series, Unified screw threads—Continued

		Nominal size and threads	perinch		21	33/s=6 or 3,375=6	3.375-8	338-12 or 3.375-12	338-16 or 3.375-16	375-4 or	3½-6 or 3. 500-6	3½-8 or 3. 500-8	3½-12 or 3. 500-12	3½-16 or 3. 500-16	35%-6 or 3. 625-6
		Scries designa- tion			30	ND	ND	UN	UN	UNC	NO	UN	NO	N N N	ND
		Class			19	2B 3B	2B 3B	2B 3B	2B 3B	1B 2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B
	Z plain plug gages for minor diameter		TON		18	in 3. 2250 3. 2248 3. 2146 3. 2144	3, 2650 3, 2648 3, 2547 3, 2545	3.3030 3.3028 3.2948 3.2946	3.3210 3.3208 3.3158 3.3156	3. 2670 3. 2668 3. 2670 3. 2668 3. 2594 3. 2592	3. 3500 3. 3498 3. 3396 3. 3394	3.3900 3.3898 3.3797 3.3795	3. 4280 3. 4278 3. 4198 3. 4196	3. 4460 3. 4458 3. 4408 3. 4406	3. 4750 3. 4748 3. 4646 3. 4644
ls	Z plain p for minor		g	3	17	in. 3, 1950 3, 1952 3, 1952 3, 1952	3, 2400 3, 2402 3, 2400 3, 2402	3, 2850 3, 2852 3, 2850 3, 2850	3.3070 3.3072 3.3070 3.3070	3, 2290 3, 2292 3, 2292 3, 2292 3, 2290 3, 2292	3. 3200 3. 3202 3. 3200 3. 3200	3. 3650 3. 3652 3. 3650 3. 3652	3, 4100 3, 4102 3, 4102 3, 4102	3. 4320 3. 4322 3. 4320 3. 4320	3. 4450 3. 4452 3. 4450 3. 4452
ial thread			Pitch diameter	Plus toler- anee gage	16	in. 3. 2791 3. 2796 3. 2760 3. 2765	3, 3052 3, 3057 3, 3023 3, 3028	3, 3293 3, 3297 3, 3272 3, 3276	3. 3419 3. 3423 3. 3400 3. 3404	3. 3591 3. 3596 3. 3519 3. 3524 3. 3484 3. 3489	3. 4042 3. 4047 3. 4011 3. 4016	3, 4303 3, 4308 3, 4274 3, 4279	3, 4543 3, 4547 3, 4522 3, 4526	3. 4669 3. 4673 3. 4650 3. 4654	3. 5293 3. 5298 3. 5262 3. 5267
Gages for internal threads	gages	III	Pitch d	Minus toler- anee gage	15	in. 3, 2791 3, 2786 3, 2760 3, 2755	3, 3052 3, 3047 3, 3023 3, 3018	3, 3293 3, 3289 3, 3272 3, 3268	3.3419 3.3415 3.3400 3.3396	3, 3591 3, 3586 3, 3519 3, 3514 3, 3484 3, 3479	3. 4042 3. 4037 3. 4011 3. 4006	3. 4303 3. 4298 3. 4274 3. 4269	3. 4543 3. 4539 3. 4522 3. 4518	3. 4669 3. 4665 3. 4650 3. 4646	3. 5293 3. 5288 3. 5262 3. 5257
Gages	X thread plug			Major diam- eter	14	in. 3. 3513 3. 3505 3. 3482 3. 3474	3, 3593 3, 3586 3, 3564 3, 3557	3.3654 3.3648 3.3633 3.3627	3.3690 3.3684 3.3671 3.3665	3. 4674 3. 4665 3. 4602 3. 4593 3. 4567 3. 4567	3. 4764 3. 4756 3. 4733 3. 4725	3. 4844 3. 4837 3. 4815 3. 4808	3. 4904 3. 4898 3. 4883 3. 4877	3. 4940 3. 4934 3. 4921 3. 4915	3. 6015 3. 6007 3. 5984 3. 5976
		0.			13	in. 3. 2667 3. 2672 3. 2667 3. 2667	3, 2938 3, 2943 3, 2938 3, 2943	3, 3209 3, 3213 3, 3209 3, 3213	3. 3344 3. 3348 3. 3344 3. 3348	3. 3376 3. 3381 3. 3376 3. 3381 3. 3381 3. 3381	3. 3917 3. 3922 3. 3917 3. 3922	3. 4188 3. 4193 3. 4193 3. 4193	3. 4459 3. 4463 3. 4463 3. 4463	3, 4594 3, 4598 3, 4594 3, 4598	3. 5167 3. 5172 3. 5167 3. 5167
		O		Major diam- eter	12	in. 3. 3750 3. 3758 3. 3750 3. 3750	3. 3750 3. 3757 3. 3750 3. 3750	3, 3750 3, 3756 3, 3756 3, 3750 3, 3756	3. 3750 3. 3756 3. 3756 3. 3750	3, 5000 3, 5000 3, 5000 3, 5000 3, 5000 3, 5000	3. 5000 3. 5008 3. 5008 3. 5008	3. 5000 3. 5007 3. 5000 3. 5007	3, 5000 3, 5006 3, 5006 3, 5006	3.5000 3.5006 3.5006 3.5006	3. 6250 3. 6258 3. 6258 3. 6250
	for major	r G0	Un-	finished hot- rolled material	11	in.				3.4610		3. 4749			
	plain ring gages for major diameter	NOT		Semi- finished	10	<i>in.</i> 3. 3539 3. 3541 3. 3568 3. 3570	3, 3574 3, 3576 3, 3600 3, 3602	3, 3617 3, 3619 3, 3636 3, 3638	3, 3639 3, 3641 3, 3656 3, 3658	3. 4610 3. 4612 3. 4729 3. 4731 3. 4762 3. 4764	3, 4789 3, 4791 3, 4818 3, 4820	3. 4824 3. 4826 3. 4850 3. 4852	3. 4867 3. 4869 3. 4886 3. 4888	3. 4889 3. 4891 3. 4906 3. 4908	3. 6039 3. 6041 3. 6068 3. 6070
reads	Z plain r		GO		6	in. 3.3721 3.3719 3.3750 3.3748	3, 3724 3, 3722 3, 3750 3, 3748	3.3731 3.3729 3.3750 3.3748	3, 3733 3, 3731 3, 3750 3, 3748	3, 4967 3, 4967 3, 4967 3, 4965 3, 5000 3, 4998	3. 4971 3. 4969 3. 5000 3. 4998	3. 4974 3. 4972 3. 5000 3. 4998	3. 4981 3. 4979 3. 5000 3. 4998	3. 4983 3. 4981 3. 5000 3. 4998	3. 6221 3. 6219 3. 6250 3. 6248
external threads		1 A and 2 A class 3 A		Minor diam- eter	∞	in. 3. 2182 3. 2190 3. 2234 3. 2242	3, 2553 3, 2560 3, 2601 3, 2608	3, 2946 3, 2952 3, 2981 3, 2987	3.3134 3.3140 3.3166 3.3166	3. 2636 3. 2645 3. 2692 3. 2701 3. 2752 3. 2761	3. 3431 3. 3439 3. 3484 3. 3492	3, 3803 3, 3810 3, 3851 3, 3858	3. 4196 3. 4202 3. 4231 3. 4237	3. 4384 3. 4390 3. 4416 3. 4422	3. 4680 3. 4688 3. 4733 3. 4741
Gages for c	gages	asses 1A a	Pitch diameter	Minus toler- ance gage	2	in. 3. 2543 3. 2538 3. 2595 3. 2590	3, 2824 3, 2819 3, 2872 3, 2867	3.3126 3.3122 3.3161 3.3161	3. 3269 3. 326 5 3. 3301 3. 3297	3, 3177 3, 3172 3, 3233 3, 3228 3, 3293 3, 3293 3, 3288	3, 3792 3, 3787 3, 3845 3, 3840	3. 4074 3. 4069 3. 4122 3. 4117	3. 4376 3. 4372 3. 4411 3. 4407	3, 4519 3, 4515 3, 4511 3, 4547	3. 5041 3. 5036 3. 5094 3. 5089
Ğ	thread ring	LO, classes 17 NOT GO, e	Pitch d	Plus toler- ance gage	9	in. 3, 2543 3, 2548 3, 2595 3, 2600	3. 2824 3. 2829 3. 2872 3. 2877	3.3126 3.3130 3.3161 3.3165	3. 3269 3. 3273 3. 3301 3. 3305	3. 3177 3. 3182 3. 3233 3. 3238 3. 3293 3. 3298	3. 3792 3. 3797 3. 3845 3. 3850	3. 4074 3. 4079 3. 4122 3. 4127	3. 4376 3. 4380 3. 4411 3. 4415	3, 4519 3, 4523 3, 4551 3, 4555	3. 5041 3. 5046 3. 5094 3. 5099
	X thi	09		Minor diam- eter	5	in. 3. 1916 3. 1908 2. 1945 3. 1937	3, 2371 3, 2364 3, 2397 3, 2390	3, 2829 3, 2823 3, 2848 3, 2842	3, 3056 3, 3050 3, 3073 3, 3067	3. 2260 3. 2251 3. 2260 3. 2251 3. 2293 3. 2293 3. 2284	3, 3166 3, 3158 3, 3195 3, 3187	3. 3621 3. 3614 3. 3647 3. 3640	3. 4079 3. 4073 3. 4098 3. 4092	3. 4306 3. 4320 3. 4323 3. 4317	3. 4416 3. 4408 3. 4445 3. 4445
		9		Pitch diam- etcr	4	in. 3. 2638 3. 2633 3. 2667 3. 2667	3, 2912 3, 2907 3, 2938 3, 2933	3. 3190 3. 3186 3. 3209 3. 3205	3. 3327 3. 3323 3. 3344 3. 3340	3. 3343 3. 3343 3. 3343 3. 3343 3. 3376 3. 3371	3, 3888 3, 3883 3, 3917 3, 3912	3. 4162 3. 4157 3. 4188 3. 4183	3. 4440 3. 4436 3. 4459 3. 4455	3. 4577 3. 4573 3. 4594 3. 4590	3. 5138 3. 5133 3. 5167 3. 5162
	Class Di				3	2A 3A	2A 3A	2A 3A	2A 3A	1A 2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A
	Series designa- tion				2	UN	UN	UN	UN	UNC	UN	UN	UN	UN	UN
		Nominal size and	per inch		1	33%-6 or 3.375-6	3,375-8 or	338-12 or 3.375-12	338-16 or 3.375-16	3.500-4	3½-6 or 3.500-6	3½-8 or 3.500-8	3,500-12	3.500-16 or	358-6 or 3.625-6

358-8 or 3. 625-8	358-12 or 3. 625-12	358-16 or 3. 625-16	334-4 or 3.750-4	334-6 or 3.750-6	334-8 or 3. 750-8	334-12 or 3.750-12	334-16 or 3.750-16	378-6 or 3.875-6	378-8 or 3.875-8	378-12 or 3. 875-12	378-16 or 3.875-16	4-4 or 4, 000-4	4-6 or 4.000-6	4-8 or 4. 000-8
ND	Q.N	ND	UNC	UN	UN	UN	ND	ND	ND	ND	ND	UNC	UN	ND
2B 3B	2B 3B	2B 3B	1B 2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	1B 2B 3B	2B 3B	2B 3B
3. 5150 3. 5148 3. 5047 3. 5045	3. 5530 3. 5528 3. 5448 3. 5446	3. 5710 3. 5708 3. 5658 3. 5656	3. 5170 3. 5168 3. 5168 3. 5168 3. 5094 3. 5092	3. 5998 3. 5896 3. 5896 3. 5894	3. 6400 3. 6398 3. 6297 3. 6295	3. 6780 3. 6778 3. 6698 3. 6696	3. 6960 3. 6958 3. 6908 3. 6906	3.7250 3.7248 3.7146 3.7144	3. 7650 3. 7648 3. 7547 3. 7545	3. 8030 3. 8028 3. 7948 3. 7946	3.8210 3.8208 3.8158 3.8156	3. 7670 3. 7668 3. 7668 3. 7668 3. 7594 3. 7594	3. 8500 3. 8498 3. 8396 3. 8394	3.8900 3.8898 3.8797 3.8795
3. 4900 3. 4902 3. 4900 3. 4902	3. 5350 3. 5352 3. 5350 3. 5352	3. 5570 3. 5572 3. 5570 3. 5572	3. 4790 3. 4792 3. 4792 3. 4792 3. 4792 3. 4792	3, 5700 3, 5702 3, 5700 3, 5700	3, 6150 3, 6152 3, 6150 3, 6150	3. 6690 3. 6602 3. 6600 3. 6602	3. 6820 3. 6822 3. 6820 3. 6822	3. 6950 3. 6952 3. 6950 3. 6952	3. 7400 3. 7402 3. 7400 3. 7402	3, 7850 3, 7852 3, 7850 3, 7852	3.8070 3.8072 3.8070 3.8070	3, 7290 3, 7290 3, 7290 3, 7292 3, 7292 3, 7292	3, 8200 3, 8202 3, 8200 3, 8200 3, 8202	3.8650 3.8652 3.8650 3.8650
3, 5554 3, 5559 3, 5525 3, 5525	3, 5793 3, 5797 3, 5772 3, 5776	3, 5919 3, 5923 3, 5900 3, 5904	3.6094 3.6099 3.6021 3.5985 3.5985 3.5985	3. 6544 3. 6549 3. 6512 3. 6517	3. 6805 3. 6810 3. 6776 3. 6781	3, 7043 3, 7047 3, 7022 3, 7026	3.7169 3.7173 3.7150 3.7154	3. 7795 3. 7800 3. 7763 3. 7768	3.8036 3.8050 3.8026 3.8026	3. 8294 3. 8298 3. 8273 3. 8277	3.8420 3.8424 3.8401 3.8401	3.8597 3.8602 3.8523 3.8528 3.8487 3.8492	3. 9046 3. 9051 3. 9014 3. 9019	3. 9307 3. 9312 3. 9277 3. 9282
3. 5554 3. 5549 3. 5525 3. 5525	3. 5793 3. 5789 3. 5772 3. 5768	3, 5919 3, 5915 3, 5900 3, 5896	3.6094 3.6089 3.6021 3.6016 3.5985 3.5985	3. 6544 3. 6539 3. 6512 3. 6507	3. 6805 3. 6800 3. 6776 3. 6771	3. 7043 3. 7039 3. 7022 3. 7018	3. 7169 3. 7165 3. 7150 3. 7146	3. 7795 3. 7790 3. 7763 3. 7758	3.8056 3.8051 3.8026 3.8026	3. 8294 3. 8290 3. 8273 3. 8269	3.8420 3.8416 3.8401 3.8397	3.8597 3.8592 3.8523 3.8518 3.8487 3.8487	3. 9045 3. 9041 3. 9014 3. 9009	3. 9307 3. 9302 3. 9277 3. 9272
3. 6095 3. 6088 3. 6066 3. 6059	3. 6154 3. 6148 3. 6133 3. 6127	3, 6190 3, 6184 3, 6171 3, 6165	3. 7177 3. 7168 3. 7104 3. 7095 3. 7068 3. 7059	3. 7266 3. 7258 3. 7234 3. 7226	3. 7346 3. 7339 3. 7317 3. 7310	3. 7404 3. 7398 3. 7383 3. 7377	3.74±0 3.7434 3.7421 3.7415	3.8517 3.8509 3.8485 3.8477	3.8597 3.8590 3.8567 3.8560	3.8655 3.8649 3.8634 3.8628	3.8691 3.8685 3.8672 3.8666	3, 9680 3, 9671 3, 9606 3, 9597 3, 9570 3, 9561	3. 9768 3. 9760 3. 9736 3. 9728	3. 9848 3. 9841 3. 9818 3. 9811
3. 5438 3. 5443 3. 5443 3. 5443	3, 5709 3, 5713 3, 5709 3, 5713	3, 5844 3, 5848 3, 5844 3, 5844	3, 5876 3, 5881 3, 5881 3, 5881 3, 5876 3, 5876	3. 6417 3. 6422 3. 6417 3. 6417	3. 6688 3. 6693 3. 6688 3. 6693	3. 6959 3. 6963 3. 6959 3. 6963	3. 7094 3. 7098 3. 7094 3. 7098	3. 7667 3. 7672 3. 7667 3. 7672	3. 7938 3. 7943 3. 7938 3. 7943	3. 8209 3. 8213 3. 8209 3. 8213	3. 8344 3. 8348 3. 8344 3. 8348	3. 8376 3. 8381 3. 8376 3. 8381 3. 8381 3. 8381	3. 8917 3. 8922 3. 8917 3. 8922	3. 9188 3. 9193 3. 9188 3. 9193
3, 6250 3, 6257 3, 6250 3, 6250	3. 6250 3. 6256 3. 6256 3. 6250	3. 6250 3. 6256 3. 6256 3. 6250	3, 7500 3, 7509 3, 7509 3, 7509 3, 7509 3, 7509	3, 7500 3, 7508 3, 7508 3, 7500 3, 7508	3. 7500 3. 7507 3. 7500 3. 7500	3. 7500 3. 7506 3. 7506 3. 7500 3. 7506	3, 7500 3, 7506 3, 7506 3, 7500 3, 7506	3.8750 3.8758 3.8758 3.8758	3.8750 3.8757 3.8750 3.8750	3.8750 3.8756 3.8756 3.8750	3.8750 3.8756 3.8756 3.8750	4. 0000 4. 0000 4. 0000 4. 0000 4. 0000 4. 0000	4, 0000 4, 0000 4, 0000 4, 0008	4. 0000 4. 0007 4. 0000 4. 0007
			3, 7109		3. 7248							3.9609		3. 9748
3. 6073 3. 6075 3. 6100 3. 6102	3. 6117 3. 6119 3. 6136 3. 6138	3. 6139 3. 6141 3. 6156 3. 6158	3, 7109 3, 7111 3, 7228 3, 7230 3, 7262 3, 7264	3, 7289 3, 7291 3, 7318 3, 7320	3, 7323 3, 7325 3, 7350 3, 7352	3. 7367 3. 7369 3. 7386 3. 7388	3.7389 3.7391 3.7406 3.7408	3.8538 3.8540 3.8568 3.8570	3.8573 3.8575 3.8600 3.8602	3.8616 3.8618 3.8636 3.8638	3.8638 3.8640 3.8656 3.8658	3. 9639 3. 9611 3. 9728 3. 9730 3. 9762 3. 9764	3. 9788 3. 9790 3. 9818 3. 9820	3. 9823 3. 9825 3. 9850 3. 9852
3. 6223 3. 6221 3. 6250 3. 6248	3. 6231 3. 6229 3. 6250 3. 6248	3, 6233 3, 6231 3, 6250 3, 6248	3. 7466 3. 7464 3. 7464 3. 7464 3. 7500 3. 7500	3, 7471 3, 7469 3, 7500 3, 7498	3, 7473 3, 7471 3, 7500 3, 7498	3. 7481 3. 7479 3. 7500 3. 7498	3. 7483 3. 7481 3. 7500 3. 7498	3. 8720 3. 8718 3. 8750 3. 8748	3. 8723 3. 8721 3. 8750 3. 8748	3.8730 3.8728 3.8750 3.8748	3. 8732 3. 8730 3. 8750 3. 8748	3. 9966 3. 9964 3. 9966 4. 0000 3. 9998	3. 9970 3. 9968 4. 0000 3. 9998	3. 9973 3. 9971 4. 0000 3. 9998
3. 5051 3. 5058 3. 5100 3. 5107	3. 5446 3. 5452 3. 5481 3. 5487	3, 5634 3, 5640 3, 5666 3, 5672	3. 5133 3. 5142 3. 5189 3. 5281 3. 5251 3. 5260	3, 5929 3, 5937 3, 5983 3, 5991	3. 6300 3. 6357 3. 6350 3. 6357	3. 6696 3. 6702 3. 6731 3. 6731	3. 6884 3. 6890 3. 6916 3. 6922	3, 7177 3, 7185 3, 7232 3, 7240	3. 7549 3. 7556 3. 7599 3. 7606	3. 7944 3. 7950 3. 7980 3. 7986	3. 8132 3. 8138 3. 8165 3. 8171	3.7631 3.7640 3.7688 3.7697 3.7750 3.7759	3.8427 3.8435 3.8482 3.8490	3.8799 3.8806 3.8849 3.8856
3. 5322 3. 5317 3. 5371 3. 5366	3. 5626 3. 5622 3. 5661 3. 5657	3, 5769 3, 5765 3, 5801 3, 5797	3. 5674 3. 5669 3. 5730 3. 5725 3. 5792 3. 5787	3. 6290 3. 6285 3. 6344 3. 6339	3. 6571 3. 6566 3. 6621 3. 6616	3. 6876 3. 6872 3. 6911 3. 6907	3, 7019 3, 7015 3, 7051 3, 7047	3, 7538 3, 7533 3, 7593 3, 7588	3. 7820 3. 7815 3. 7870 3. 7865	3.8124 3.8120 3.8160 3.8156	3. 8267 3. 8263 3. 8300 3. 8296	3.8172 3.8167 3.8229 3.8224 3.8291 3.8291	3. 8788 3. 8783 3. 8843 3. 8838	3. 9070 3. 9065 3. 9120 3. 9115
3. 5322 3. 5327 3. 5371 3. 5376	3. 5626 3. 5630 3. 5661 3. 5665	3. 5769 3. 5773 3. 5801 3. 5805	3. 5674 3. 5679 3. 5730 3. 5735 3. 5792 3. 5797	3. 6290 3. 6295 3. 6344 3. 6349	3. 6571 3. 6576 3. 6621 3. 6626	3. 6876 3. 6880 3. 6911 3. 6915	3, 7019 3, 7023 3, 7051 3, 7055	3. 7538 3. 7543 3. 7593 3. 7598	3, 7820 3, 7825 3, 7870 3, 7875	3.8124 3.8128 3.8160 3.8164	3. 8267 3. 8271 3. 8300 3. 8304	3.8172 3.8177 3.8229 3.8234 3.8234 3.8291	3.8788 3.8793 3.8843 3.8848	3. 9070 3. 9075 3. 9120 3. 9125
3. 4870 3. 4863 3. 4897 3. 4890	3, 5329 3, 5323 3, 5348 3, 5342	3. 5556 3. 5550 3. 5573 3. 5567	3. 4759 3. 4750 3. 4750 3. 4750 3. 4750 3. 4784	3.5666 3.5658 3.5695 3.5687	3. 6120 3. 6113 3. 6147 3. 6140	3. 6579 3. 6573 3. 6598 3. 6592	3. 6806 3. 6823 3. 6823 3. 6817	3. 6915 3. 6907 3. 6945 3. 6937	3. 7370 3. 7363 3. 7397 3. 7390	3. 7828 3. 7822 3. 7848 3. 7842	3.8055 3.8049 3.8073 3.8067	3, 7259 3, 7250 3, 7259 3, 7250 3, 7293 3, 7293	3. 8165 3. 8157 3. 8195 3. 8187	3.8620 3.8613 3.8647 3.8640
3. 5411 3. 5406 3. 5438 3. 5433	3.5690 3.5686 3.5709 3.5705	3. 5827 3. 5823 3. 5844 3. 5840	3. 5842 3. 5837 3. 5842 3. 5837 3. 5836 3. 5876 3. 5876	3. 6388 3. 6383 3. 6417 3. 6412	3. 6661 3. 6656 3. 6688 3. 6683	3. 6940 3. 6936 3. 6959 3. 6955	3. 7077 3. 7073 3. 7094 3. 7090	3. 7637 3. 7632 3. 7667 3. 7662	3.7911 3.7906 3.7938 3.7933	3.8189 3.8185 3.8209 3.8205	3.8326 3.8322 3.8344 3.8340	3. 8342 3. 8337 3. 8342 3. 8337 3. 8376 3. 8376	3.8887 3.8882 3.8917 3.8912	3.9161 3.9156 3.9188 3.9183
2A 3A	2A 3A	2A 3A	1A 2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	1A 2A 3A	2A 3A	2A 3A
ND	UN	ND	UNC	UN	UN	UN	UN	UN	ND	UN	UN	UNC	UN	N O
35%-8 or 3.625-8	358–12 or 3. 625–12	35%-16 or 3. 625-16	334-4 or 3. 750-4	334-6 or 3. 750-6	3¾-8 or 3.750-8	334-12 or 3. 750-12	334-16 or 3.750-16	378-6 or 3.875-6	378-8 or 3. 875-8	378-12 or 3. 875-12	37%-16 or 3. 875-16	4-4 or 4.000-4	4-6 or 4. 000-6	4-8 or 4. 000-8

Table III.12.—Gages for standard thread series, Unified screw threads—Continued

		Nominal size and	threads per inch		21	4-12 or 4. 000-12	4-16 or 4.000-16	478-6 or 4. 125-6	4½-12 or 4. 125-12	478-16 or 4. 125-16	4)4-4 or 4. 250-4	4½-6 or 4. 250-6	414-12 or 4. 250-12	4)4-16 or 4. 250-16	438-6 or 4. 375-6
		Series designa-	tion		20	UN	UN	UN	UN	UN	UN	UN	UN	UN	UN
		Class			19	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B
	Z plain plug gages for minor diameter		NoT G0		18	in. 3. 9280 3. 9278 3. 9198 3. 9196	3. 9460 3. 9458 3. 9408 3. 9406	3. 9750 3. 9748 3. 9646 3. 9644	4, 0530 4, 0528 4, 0448 4, 0446	4. 0710 4. 0708 4. 0658 4. 0656	4. 0170 4. 0168 4. 0094 4. 0092	4. 1000 4. 0998 4. 0896 4. 0894	4. 1780 4. 1778 4. 1698 4. 1696	4. 1960 4. 1958 4. 1908 4. 1906	4. 2250 4. 2248 4. 2146 4. 2144
s	Z plain p for minor		GO		17	in. 3. 9100 3. 9102 3. 9102 3. 9102	3. 9320 3. 9322 3. 9320 3. 9322	3. 9450 3. 9452 3. 9450 3. 9452	4. 0350 4. 0352 4. 0350 4. 0352	4. 0570 4. 0572 4. 0570 4. 0572	3. 9790 3. 9792 3. 9790 3. 9792	4. 0700 4. 0702 4. 0700 4. 0702	4. 1600 4. 1602 4. 1600 4. 1602	4, 1820 4, 1822 4, 1820 4, 1822	4. 1950 4. 1952 4. 1950 4. 1952
Gages for internal threads			Pitch diameter	Plus toler- ance gage	16	in. 3. 9544 3. 9548 3. 9523 3. 9527	3. 9670 3. 9674 3. 9651 3. 9655	4. 0297 4. 0303 4. 0264 4. 0270	4. 0794 4. 0800 4. 0773 4. 0779	4. 0920 4. 0926 4. 0901 4. 0907	4. 1025 4. 1031 4. 0988 4. 0994	4, 1548 4, 1554 4, 1515 4, 1521	4. 2044 4. 2050 4. 2023 4. 2029	4. 2170 4. 2176 4. 2151 4. 2157	4, 2799 4, 2805 4, 2766 4, 2772
for intern	gages	111	Pitch d	Minus toler- anee gage	15	in. 3. 9544 3. 9549 3. 9523 3. 9519	3, 9670 3, 9666 3, 9651 3, 9647	4. 0297 4. 0291 4. 0264 4. 0258	4. 0794 4. 0788 4. 0773 4. 0767	4. 0920 4. 0914 4. 0901 4. 0895	4. 1025 4. 1019 4. 0988 4. 0982	4. 1548 4. 1542 4. 1515 4. 1509	4. 2044 4. 2038 4. 2023 4. 2017	4. 2170 4. 2164 4. 2151 4. 2145	4. 2799 4. 2793 4. 2766 4. 2760
Gages	thread plug			Major diam- eter	14	in. 3. 9905 3. 9899 3. 9884 3. 9884	3, 9941 3, 9935 3, 9922 3, 9916	4. 1019 4. 1006 4. 0986 4. 0973	4, 1155 4, 1146 4, 1134 4, 1125	4, 1191 4, 1182 4, 1172 4, 1163	4. 2108 4. 2093 4. 2071 4. 2056	4, 2270 4, 2257 4, 2237 4, 2224	4, 2405 4, 2396 4, 2384 4, 2375	4. 2441 4. 2432 4. 2422 4. 2413	4. 3521 4. 3508 4. 3488 4. 3475
	X th	GO		Pitch diam- eter	13	in. 3. 9459 3. 9463 3. 9463 3. 9463	3. 9594 3. 9598 3. 9594 3. 9598	4. 0167 4. 0173 4. 0167 4. 0173	4. 0709 4. 0715 4. 0709 4. 0715	4. 0844 4. 0850 4. 0844 4. 0850	4. 0876 4. 0882 4. 0876 4. 0882	4. 1417 4. 1423 4. 1417 4. 1423	4, 1959 4, 1965 4, 1959 4, 1965	4, 2094 4, 2100 4, 2094 4, 2100	4. 2667 4. 2673 4. 2667 4. 2667
				Major diam- eter	12	in. 4. 0000 4. 0006 4. 0006	4. 0000 4. 0006 4. 0000 4. 0006	4. 1250 4. 1263 4. 1250 4. 1263	4. 1250 4. 1259 4. 1259 4. 1259	4. 1250 4. 1259 4. 1250 4. 1259	4. 2500 4. 2515 4. 2500 4. 2515	4. 2500 4. 2513 4. 2500 4. 2513	4. 2500 4. 2509 4. 2500 4. 2509	4. 2500 4. 2509 4. 2500 4. 2509	4. 3750 4. 3750 4. 3750 4. 3750
	for major	r G0	Up	E 1 E	17	in.									
	plain ring gages for diameter	NOT		Semi-	10.	in. 3. 9866 3. 9868 3. 9886 3. 9886	3. 9888 3. 9890 3. 9906 3. 9908	4. 1038 4. 1040 4. 1068 4. 1070	4, 1116 4, 1118 4, 1136 4, 1138	4, 1138 4, 1140 4, 1156 4, 1158	4. 2228 4. 2230 4. 2262 4. 2264	4. 2288 4. 2290 4. 2318 4. 2320	4. 2366 4. 2368 4. 2386 4. 2388	4, 2388 4, 2390 4, 2406 4, 2408	4. 3538 4. 3540 4. 3568 4. 3570
neads	Z plain r		GO		6	<i>in.</i> 3. 9989 3. 9978 4. 0000 3. 9998	3. 9982 3. 9980 4. 0000 3. 9998	4, 1220 4, 1218 4, 1250 4, 1248	4, 1230 4, 1228 4, 1250 4, 1248	4, 1232 4, 1230 4, 1250 4, 1248	4. 2466 4. 2464 4. 2500 4. 2498	4. 2470 4. 2468 4. 2500 4. 2498	4. 2480 4. 2478 4. 2500 4. 2498	4, 2482 4, 2480 4, 2500 4, 2498	4. 3720 4. 3718 4. 3750 4. 3748
ages for external threads		and 2.A ass 3.A		Minor diam- etcr	∞	in. 3. 9194 3. 9230 3. 9239 3. 9236	3. 9382 3. 9388 3. 9415 3. 9421	3. 9676 3. 9689 3. 9731 3. 9744	4. 0444 4. 0453 4. 0480 4. 0489	4. 0632 4. 0641 4. 0665 4. 0674	4. 0186 4. 0201 4. 0249 4. 0264	4. 0925 4. 0938 4. 0981 4. 0994	4. 1694 4. 1703 4. 1730 4. 1739	4. 1882 4. 1891 4. 1915 4. 1924	4. 2175 4. 2188 4. 2230 4. 2243
ages for e	gages	LO, classes 1A and 2A NOT GO, class 3A	diameter	Minus toler- ance gage	1-	in. 3. 9374 3. 9370 3. 9410 3. 9406	3, 9517 3, 9513 3, 9550 3, 9546	4. 0037 4. 0031 4. 0092 4. 0086	4. 0624 4. 0618 4. 0660 4. 0654	4. 0767 4. 0761 4. 0800 4. 0794	4. 0727 4. 0721 4. 0790 4. 0784	4. 1286 4. 1280 4. 1342 4. 1336	4. 1874 4. 1868 4. 1910 4. 1904	4. 2017 4. 2011 4. 2050 4. 2044	4. 2536 4. 2530 4. 2591 4. 2585
ğ	X thread ring	Lo, el No 1	Pitch o	Plus toler- ance gage	9	in. 3. 9374 3. 9378 3. 9410 3. 9414	3. 9517 3. 9521 3. 9550 3. 9554	4. 0037 4. 0043 4. 0092 4. 0098	4. 0624 4. 0630 4. 0660 4. 0666	4. 0767 4. 0773 4. 0800 4. 0806	4. 0727 4. 0733 4. 0790 4. 0796	4. 1296 4. 1292 4. 1342 4. 1348	4. 1874 4. 1880 4. 1910 4. 1916	4. 2023 4. 2023 4. 2050 4. 2056	4. 2536 4. 2542 4. 2591 4. 2597
	X th	GO		Minor diam- eter	2	in. 3. 9078 3. 9072 3. 9098 3. 9092	3. 9299 3. 9299 3. 9323 3. 9317	3. 9415 3. 9402 3. 9445 3. 9432	4. 0328 4. 0319 4. 0348 4. 0339	4, 0555 4, 0546 4, 0573 4, 0564	3. 9759 3. 9744 3. 9793 3. 9778	4. 0665 4. 0652 4. 0695 4. 0682	4. 1578 4. 1569 4. 1589 4. 1589	4. 1805 4. 1796 4. 1823 4. 1814	4. 1915 4. 1902 4. 1945 4. 1932 4. 1932
				Pitch diam- eter	4	in. 3. 9439 3. 9435 3. 9459 3. 9455	3. 9576 3. 9572 3. 9594 3. 9590	4. 0137 4. 0131 4. 0167 4. 0161	4. 0689 4. 0683 4. 0709 4. 0703	4. 0820 4. 0820 4. 0844 4. 0838	4. 0842 4. 0836 4. 0876 4. 0870	4. 1387 4. 1381 4. 1417 4. 1411	4. 1939 4. 1933 4. 1959 4. 1953	4. 2076 4. 2070 4. 2094 4. 2088	4. 2637 4. 2631 4. 2667 4. 2667
			2000		8	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A
		Series	tion		61	NO	ND	UN	UN	UN	UN	UN	UN	ON	UN
		Nominal Sign and	threads		1	4-12 or 4, 000-12	4. 000-16	4)%-6 or 4. 125-6	41/6-12 or 4. 125-12	4)%-16 or 4, 125-16	4. 250-4	4. 250-6	4. 250-12	4. 250-16	43%-6 or 4. 375-6

438-12 or 4. 375-12	4 ³ %-16 or 4. 375-16	4½-4 or 4,500-4	4)2-6 or 4, 500-6	4. 500–12	4,500-16	458-6 or 4. 625-6	458-12 or 4. 625-12	458-16 or 4. 625-16	434-4 or 4. 750-4	434-6 or 4, 750-6	434-12or 4. 750-12	434-16 or 4. 750-16	478-6 or 4. 875-6	478–12 or 4. 875–12	478–16 or 4, 875–16
ND	UN	NN	UN	ND	UN	ND ND	UN	UN	ND	ND	UN	UN	UN	UN	UN
2b	2B	2B	2B	2B	2B	2B	2B	2B	2B	2B	2B	2B	2B	2B	2B
3B	3B	3B	3B	3B	3B	3B	3B	3B	3B	3B	3B	3B	3B	3B	3B
4. 3030	4. 3210	4. 2670	4. 3500	4, 4280	4, 4460	4, 47500	4, 55300	4. 57100	4. 51700	4, 60000	4. 67800	4. 69600	4. 72500	4. 80300	4. 82100
4. 3028	4. 3208	4. 2668	4. 3498	4, 4278	4, 4458	4, 47475	4, 55275	4. 57075	4. 51675	4, 59975	4. 67775	4. 69575	4. 72475	4. 80275	4. 82075
4. 2948	4. 3158	4. 2594	4. 3396	4, 4198	4, 4408	4, 46460	4, 54480	4. 56580	4. 50940	4, 58960	4. 66980	4. 69080	4. 71460	4. 79480	4. 81580
4. 2946	4. 3156	4. 2592	4. 3394	4, 4196	4, 4406	4, 46435	4, 54455	4. 56555	4. 50915	4, 58935	4. 66955	4. 69055	4. 71435	4. 79455	4. 81555
4, 2850 4, 2852 4, 2850 4, 2852	4, 3070 4, 3072 4, 3070 4, 3072	4. 2290 4. 2292 4. 2290 4. 2292	4, 3200 4, 3202 4, 3200 4, 3200 4, 3202	4, 4100 4, 4102 4, 4100 4, 4102	4, 4320 4, 4322 4, 4320 4, 4322	4, 44500 4, 44525 4, 44500 4, 44525	4, 53500 4, 53525 4, 53500 4, 53525	4. 55700 4. 55725 4. 55700 4. 55725	4. 47900 4. 47925 4. 47900 4. 47925	4, 57000 4, 57025 4, 57000 4, 57025	4. 66000 4. 66025 4. 66000 4. 66025	4. 68200 4. 68225 4. 68200 4. 68225	4. 69500 4. 69525 4. 69500 4. 69525	4, 78500 4, 78525 4, 78500 4, 78525	4. 80700 4. 80725 4. 80700 4. 80725
4. 3294	4, 3420	4, 3527	4. 4050	4, 4544	4, 4670	4. 5300	4, 5796	4, 5923	4, 6029	4, 6551	4. 7046	4. 7173	4, 7802	4, 8296	4.8423
4. 3200	4, 3426	4, 3533	4. 4056	4, 4550	4, 4676	4. 5306	4, 5802	4, 5929	4, 6035	4, 6557	4. 7052	4. 7179	4, 7808	4, 8302	4.8429
4. 3273	4, 3401	4, 3489	4. 4016	4, 4523	4, 4651	4. 5267	4, 5775	4, 5903	4, 5990	4, 6518	4. 7025	4. 7153	4, 7768	4, 8275	4.8403
4. 3279	4, 3407	4, 3495	4. 4022	4, 4529	4, 4657	4. 5273	4, 5781	4, 5909	4, 5996	4, 6524	4. 7031	4. 7159	4, 7774	4, 8281	4.8409
4. 3294	4. 3420	4, 3527	4, 4050	4, 4544	4. 4670	4, 5300	4, 5796	4. 5923	4, 6029	4. 6551	4. 7046	4. 7173	4. 7802	4. 8296	4, 8423
4. 3288	4. 3414	4, 3521	4, 4044	4, 4538	4. 4664	4, 5294	4, 5790	4. 5917	4, 6023	4. 6545	4. 7040	4. 7167	4. 7796	4. 8290	4, 8417
4. 3273	4. 3401	4, 3489	4, 4016	4, 4523	4. 4651	4, 5267	4, 5775	4. 5903	4, 5990	4. 6518	4. 7025	4. 7153	4. 7768	4. 8275	4, 8403
4. 3267	4. 3395	4, 3483	4, 4010	4, 4517	4. 4645	4, 5261	4, 5769	4. 5897	4, 5984	4. 6512	4. 7019	4. 7147	4. 7762	4. 8269	4, 8397
4. 3655	4. 3691	4. 4610	4. 4772	4, 4905	4, 4941	4, 6022	4. 6157	4. 6194	4. 7112	4. 7273	4. 7407	4. 7444	4.8524	4. 8657	4.8694
4. 3646	4. 3682	4. 4595	4. 4759	4, 4896	4, 4932	4, 6009	4. 6148	4. 6185	4. 7097	4. 7260	4. 7398	4. 7435	4.8511	4. 8648	4.8685
4. 3634	4. 3672	4. 4572	4. 4738	4, 4884	4, 4922	4, 5989	4. 6136	4. 6174	4. 7073	4. 7240	4. 7386	4. 7424	4.8490	4. 8636	4.8674
4. 3625	4. 3663	4. 4557	4. 4725	4, 4875	4, 4913	4, 5976	4. 6127	4. 6165	4. 7058	4. 7227	4. 7377	4. 7415	4.8477	4. 8627	4.8665
4.3209	4. 3344	4, 3376	4, 3917	4, 4459	4. 4594	4. 5167	4, 5709	4. 5844	4, 5876	4. 6417	4. 6959	4. 7094	4. 7667	4.8209	4. 8344
4.3215	4. 3350	4, 3382	4, 3923	4, 4465	4. 4600	4. 5173	4, 5715	4. 5850	4, 5882	4. 6423	4. 6965	4. 7100	4. 7673	4.8215	4. 8350
4.3209	4. 3344	4, 3376	4, 3917	4, 4459	4. 4594	4. 5167	4, 5709	4. 5844	4, 5876	4. 6417	4. 6959	4. 7094	4. 7667	4.8209	4. 8344
4.3215	4. 3350	4, 3382	4, 3923	4, 4465	4. 4600	4. 5167	4, 5715	4. 5850	4, 5882	4. 6423	4. 6965	4. 7100	4. 7673	4.8215	4. 8350
4.3750	4, 3750	4, 5000	4. 5000	4, 5000	4. 5000	4. 6250	4. 6250	4. 6250	4, 7500	4. 7500	4. 7500	4. 7500	4.8750	4.8750	4.8750
4.3759	4, 3759	4, 5015	4. 5013	4, 5009	4. 5009	4. 6263	4. 6259	4. 6259	4, 7515	4. 7513	4. 7509	4. 7509	4.8763	4.8759	4.8759
4.3759	4, 3750	4, 5000	4. 5000	4, 5000	4. 5000	4. 6250	4. 6250	4. 6250	4, 7500	4. 7500	4. 7500	4. 7500	4.8750	4.8750	4.8759
4.3759	4, 3759	4, 5015	4. 5013	4, 5009	4. 5009	4. 6250	4. 6269	4. 6259	4, 7515	4. 7513	4. 7509	4. 7509	4.8750	4.8750	4.8759
4. 3616	4, 3638	4, 4727	4, 4787	4. 4866	4. 4888	4. 60370	4. 61160	4. 61380	4. 72270	4, 72870	4. 73660	4. 73880	4. 85370	4. 86160	4, 86380
4. 3618	4, 3640	4, 4729	4, 4789	4. 4868	4. 4890	4. 60395	4. 61185	4. 61405	4. 72295	4, 72895	4. 73685	4. 73905	4. 85395	4. 86185	4, 86405
4. 3636	4, 3656	4, 4762	4, 4818	4. 4886	4. 4906	4. 60680	4. 61360	4. 61560	4. 72620	4, 73180	4. 73860	4. 74060	4. 85680	4. 86360	4, 86560
4. 3638	4, 3658	4, 4764	4, 4820	4. 4888	4. 4908	4. 60705	4. 61385	4. 61585	4. 72645	4, 73205	4. 73885	4. 74085	4. 85705	4. 86385	4, 86585
4, 3730	4. 3732	4, 4965	4, 4969	4. 4980	4, 4982	4, 62190	4. 62300	4. 62320	4, 74650	4. 74690	4. 74800	4. 74820	4. 87190	4. 87300	4, 87320
4, 3728	4. 3730	4, 4963	4, 4967	4. 4978	4, 4980	4, 62165	4. 62275	4. 62295	4, 74625	4. 74665	4. 74775	4. 74795	4. 87165	4. 87275	4, 87295
4, 3750	4. 3750	4, 5000	4, 5000	4. 5000	4, 5000	4, 62500	4. 62500	4. 62500	4, 75000	4. 75000	4. 75000	4. 75000	4. 87500	4. 87500	4, 87500
1, 3748	4. 3748	4, 4998	4, 4998	4. 4998	4, 4998	4, 62475	4. 62475	4. 62475	4, 74:75	4. 74975	4. 74975	4. 74975	4. 87475	4. 87475	4, 87475
4, 2944	4. 3132	4. 2684	4, 3423	4, 4194	4, 4382	4, 4672	4.5442	4, 5630	4, 5183	4, 5922	4. 6692	4. 6889	4, 7171	4. 7942	4.8130
4, 2953	4. 3141	4. 2699	4, 3436	4, 4203	4, 4391	4, 4685	4.5451	4, 5639	4, 5198	4, 5935	4. 6701	4. 6889	4, 7184	4. 7951	4.8139
4, 2980	4. 3165	4. 2748	4, 3479	4, 4230	4, 4415	4, 4729	4.5479	4, 5664	4, 5247	4, 5979	4. 6729	4. 6914	4, 7228	4. 7979	4.8164
4, 2989	4. 3174	4. 2763	4, 3492	4, 4239	4, 4424	4, 4742	4.5488	4, 5673	4, 5262	4, 5992	4. 6738	4. 6923	4, 7241	4. 7988	4.8173
4. 3124	4. 3267	4, 3225	4, 3784	4, 4374	4, 4517	4, 5033	4, 5622	4. 5765	4. 5724	4, 6283	4. 6872	4. 7015	4. 7532	4, 8122	4. 8265
4. 3118	4. 3261	4, 3219	4, 3778	4, 4368	4, 4511	4, 5027	4, 5616	4. 5759	4. 5718	4, 6277	4. 6866	4. 7009	4. 7526	4, 8116	4. 8259
4. 3160	4. 3300	4, 3289	4, 3840	4, 4410	4, 4550	4, 5090	4, 5659	4. 5799	4. 5788	4, 6340	4. 6909	4. 7049	4. 7589	4, 8159	4. 8299
4. 3154	4. 3294	4, 3283	4, 3834	4, 4404	4, 4544	4, 5084	4, 5653	4. 5793	4. 5782	4, 6334	4. 6903	4. 7043	4. 7583	4, 8153	4. 8293
4.3124	4, 3267	4, 3225	4, 3784	4, 4374	4, 4517	4, 5033	4. 5622	4. 5765	4, 5724	4, 6283	4. 6872	4. 7015	4. 7532	4. 8128	4. 8265
4.3130	4, 3273	4, 3231	4, 3790	4, 4380	4, 4523	4, 5039	4. 5628	4. 5771	4, 5730	4, 6289	4. 6878	4. 7021	4. 7538	4. 8128	4. 8271
4.3160	4, 3300	4, 3289	4, 3840	4, 4410	4, 4550	4, 5090	4. 5659	4. 5799	4, 5788	4, 6340	4. 6909	4. 7049	4. 7589	4. 8159	4. 8299
4.3166	4, 3306	4, 3295	4, 3846	4, 4416	4, 4556	4, 5096	4. 5665	4. 5805	4, 5794	4, 6346	4. 6915	4. 7055	4. 7595	4. 8165	4. 8305
4, 2828 4, 2819 4, 2848 4, 2839	4, 3055 4, 3046 4, 3073 4, 3064	4, 2258 4, 2243 4, 2293 4, 2278	4, 3164 4, 3151 4, 3195 4, 3182	4, 4078 4, 4069 4, 4098 4, 4089	4, 4305 4, 4296 4, 4323 4, 4314	4, 4414 4, 4401 4, 4445 4, 4432	4, 5328 4, 5319 4, 5348 4, 5339	4, 5555 4, 5546 4, 5573 4, 5564	4, 4758 4, 4743 4, 4793 4, 4778	4, 5664 4, 5651 4, 5695 4, 5682	4. 6578 4. 6569 4. 6598 4. 6589	4.6805 4.6796 4.6823 4.6814	4. 6914 4. 6901 4. 6945 4. 6932	4, 7828 4, 7848 4, 7839	4. 8055 4. 8046 4. 8073 4. 8064
4, 3189 4, 3209 4, 3203	4. 3326 4. 3320 4. 3344 4. 3338	4, 3341 4, 3335 4, 3376 4, 3370	4, 3886 4, 3880 4, 3917 4, 3911	4, 4439 4, 4433 4, 4459 4, 4453	4, 4576 4, 4570 4, 4594 4, 4588	4. 5136 4. 5130 4. 5167 4. 5161	4, 5689 4, 5683 4 5709 4, 5703	4, 5826 4, 5820 4, 5844 4, 5838	4, 5841 4, 5835 4, 5876 4, 5870	4, 6386 4, 6380 4, 6417 4, 6411	4. 6939 4. 6933 4. 6959 4. 6953	4. 7076 4. 7070 4. 7094 4. 7088	4. 7636 4. 7630 4. 7667 4. 7661	4.8189 4.8183 4.8209 4.8203	4, 8326 4, 8320 4, 8344 4, 8338
2A	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A
3A	3A	3A	3A	3A	3A	3A	3A	3A	3A	3A	3A	3A	3A	3A	3A
UN	UN	ND	UN	UN	UN	UN	UN	UN	UN	ND	ND	ND	UN	ND	ND
436–12 or	438-16 or	4½-4 or	4½-6 or	$4\frac{1}{2}$ -12 or 4. 500-12	4½–16 or	428-6 or	458–12 or	458-16 or	434-4 or	434-6 or	434–12 or	434–16 or	478-6 or	478–12 or	478–16 or
4. 375–12	4, 375-16	4. 500-4	4, 500-6		4. 500–16	4. 625-6	4. 625–12	4, 625-16	4. 750-4	4. 750-6	4, 750–12	4. 750–16	4. 875-6	4. 875–12	4. 875–16

Table III.12.—Gages for standard thread series, Unified screw threads—Continued

		Nominal size and	perineh		21	5.000-4	5. 000-6	5.000-12	5-16 or 5. 000-16	5, 125–12 or	5,125–16 or	5, 250-4	5, 250-12	5,250-16	538-12 or
		Series designa-			20	UN	UN	ND	ND	UN	ND	N D	UN	UN	UN
		Class			19	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B
	lug gages diameter		NOT GO		38	<i>in.</i> 4. 76700 4. 76675 4. 75940 4. 75915	4. 85000 4. 84975 4. 83960 4. 83935	4. 92800 4. 92775 4. 91980 4. 91955	4. 94600 4. 94575 4. 94080 4. 94055	5. 05300 5. 05275 5. 04480 5. 04455	5. 07100 5. 07075 5. 06580 5. 06555	5. 01700 5. 01675 5. 00940 5. 00915	5. 17800 5. 17775 5. 16980 5. 16955	5. 19600 5. 19575 5. 19080 5. 19055	5, 30300 5, 30275 5, 29480 5, 29455
vç.	Z plain plug gages for minor diameter		GO		17	in. 4. 72900 4. 72925 4. 72900 4. 72925	4. 82000 4. 82025 4. 82000 4. 82005	4. 91000 4. 91025 4. 91000 4. 91025	4. 93200 4. 93225 4. 93200 4. 93225	5. 03500 5. 03525 5. 03500 5. 03525	5. 05700 5. 05725 5. 05700 5. 05725	4. 97900 4. 97925 4. 97900 4. 97925	5.16000 5.16025 5.16000 5.16025	5. 18200 5. 18225 5. 18200 5. 18225	5. 28500 5. 28525 5. 28500 5. 28525
Gages for internal threads			diameter	Plus toler- ance gage	16	in. 4. 8530 4. 8536 4. 8492 4. 8498	4. 9053 4. 9059 4. 9019 4. 9025	4. 9546 4. 9552 4. 9525 4. 9531	4. 9673 4. 9653 4. 9659 4. 9659	5. 0796 5. 0802 5. 0775 5. 0781	5. 0923 5. 0929 5. 0903 5. 0909	5. 1032 5. 1038 5. 0993 5. 0999	5. 2046 5. 2052 5. 2025 5. 2031	5. 2173 5. 2179 5. 2153 5. 2159	5. 3296 5. 3302 5. 3275 5. 3281
for intern	gages	111	Pitch d	Minus toler- ance gage	15	in. 4. 8530 4. 8524 4. 8492 4. 8486	4. 9053 4. 9047 4. 9019 4. 9013	4. 9546 4. 9540 4. 9525 4. 9519	4. 9673 4. 9667 4. 9653 4. 9647	5. 0796 5. 0790 5. 0775 5. 0769	5. 0923 5. 0917 5. 0903 5. 0897	5, 1032 5, 1026 5, 0993 5, 0987	5. 2046 5. 2040 5. 2025 5. 2019	5. 2173 5. 2167 5. 2153 5. 2147	5, 3296 5, 3290 5, 3275 5, 3269
Gages 1	thread plug			Major diam- eter	14	in. 4. 9613 4. 9598 4. 9575 4. 9560	4. 9775 4. 9762 4. 9741 4. 9728	4. 9907 4. 9898 4. 9886 4. 9877	4. 9944 4. 9935 4. 9924 4. 9915	5.1157 5.1148 5.1136 5.1127	5. 1194 5. 1185 5. 1174 5. 1165	5. 2115 5. 2100 5. 2076 5. 2061	5. 2407 5. 2398 5. 2386 5. 2377	5. 2444 5. 2435 5. 2424 5. 2415	5. 3657 5. 3648 5. 3636 5. 3627
	X th	09		Pitch diam- eter	13	in. 4.8376 4.8382 4.8376 4.8382	4.8917 4.8923 4.8917 4.8923	4. 9459 4. 9465 4. 9459 4. 9455	4. 9594 4. 9600 4. 9594 4. 9600	5. 0709 5. 0715 5. 0709 5. 0715	5. 0844 5. 0850 5. 0844 5. 0850	5.0876 5.0882 5.0876 5.0882	5. 1959 5. 1965 5. 1959 5. 1965	5. 2094 5. 2100 5. 2094 5. 2100	5. 3209 5. 3215 5. 3209 5. 3215
		D		Major diam- eter	13	in. 5.0000 5.0015 5.0000 5.0000	5.0000 5.0013 5.0000 5.0013	5.0000 5.0009 5.0000 5.0009	5.0000 5.0000 5.0000	5. 1250 5. 1259 5. 1259 5. 1259	5. 1250 5. 1259 5. 1259 5. 1259	5, 2500 5, 2515 5, 2500 5, 2515	5. 2500 5. 2509 5. 2509 5. 2509	5, 2500 5, 2509 5, 2500 5, 2509	5. 3750 5. 3759 5. 3750 5. 3759
	plain ring gages for major diameter	r G0	Un-	ng r	111	in.									
	ng gages diameter	NOT		Semi- finished	10	$\begin{array}{c} in.\\ 4.97260\\ 4.97285\\ 4.97620\\ 4.97645 \end{array}$	4. 97870 4. 97895 4. 98180 4. 98205	4. 98660 4. 98685 4. 98860 4. 98885	4. 98880 4. 98905 4. 99060 4. 99085	5. 11160 5. 11185 5. 11360 5. 11385	5. 11380 5. 11405 5. 11560 5. 11585	5. 22260 5. 22285 5. 22620 5. 22645	5. 23660 5. 23685 5. 23860 5. 23885	5. 23880 5. 23905 5. 24060 5. 24085	5.36160 5.36185 5.36360 5.36385
reads	Z plain ri		99	3	6	in. 4.99640 4.99615 5.00000 4.99975	4. 99690 4. 99665 5. 00000 4. 99975	4. 99800 4. 99775 5. 00000 4. 99975	4. 99820 4. 99795 5. 00000 4. 99975	5. 12300 5. 12275 5. 12500 5. 12475	5. 12320 5. 12295 5. 12500 5. 12475	5. 24640 5. 24615 5. 25000 5. 24975	5. 24800 5. 24775 5. 25000 5. 24975	5. 24820 5. 24795 5. 25000 5. 24975	5. 37300 5. 37275 5. 37500 5. 37475
external threads		and 2A ss 3A		Minor diam- cter	∞	in. 4. 7680 4. 7695 4. 7746 4. 7761	4.8420 4.8433 4.8478 4.8491	4.9192 4.9201 4.9229 4.9238	4. 9380 4. 9414 4. 9423 4. 9423	5.0442 5.0451 5.0479 5.0488	5. 0630 5. 0639 5. 0664 5. 0673	5. 0179 5. 0194 5. 0245 5. 0260	5. 1692 5. 1701 5. 1729 5. 1738	5. 1880 5. 1889 5. 1914 5. 1923	5. 2942 5. 2951 5. 2979 5. 2988
Gages for ex	gages	LO, classes 1A and 2. NOT GO, class 3A	diameter	Minus toler- ance gage	1	in. 4. 8221 4. 8215 4. 8287 4. 8281	4. 8781 4. 8775 4. 8839 4. 8833	4. 9372 4. 9366 4. 9409 4. 9403	4. 9515 4. 9509 4. 9549 4. 9543	5, 0622 5, 0616 5, 0659 5, 0653	5. 0765 5. 0759 5. 0799 5. 0793	5. 0720 5. 0714 5. 0786 5. 0780	5. 1872 5. 1866 5. 1909 5. 1903	5. 2015 5. 2009 5. 2049 5. 2043	5. 3122 5. 3116 5. 3159 5. 3153
Ga	X thread ring	LO, el NOT	Pitch d	Plus toler- anee gage	9	in. 4. 8221 4. 8227 4. 8287 4. 8293	4.8781 4.8839 4.8845	4. 9372 4. 9378 4. 9409 4. 9415	4. 9515 4. 9521 4. 9549 4. 9555	5. 0622 5. 0628 5. 0659 5. 0665	5. 0765 5. 0771 5. 0799 5. 0805	5. 0720 5. 0726 5. 0786 5. 0792	5. 1872 5. 1878 5. 1909 5. 1915	5. 2015 5. 2021 5. 2049 5. 2055	5. 3122 5. 3128 5. 3159 5. 3165
	X th	09		Minor diam- eter	22	in. 4. 7257 4. 7242 4. 7293 4. 7278	4.8164 4.8151 4.8195 4.8182	4.9078 4.9069 4.9098 4.9089	4. 9305 4. 9296 4. 9323 4. 9314	5.0328 5.0319 5.0348 5.0339	5. 0555 5. 0546 5. 0573 5. 0564	4. 9757 4. 9742 4. 9793 4. 9778	5.1578 5.1569 5.1598 5.1589	5. 1805 5. 1796 5. 1823 5. 1814	5. 2828 5. 2819 5. 2848 5. 2839
		9		Pitch diam- eter	4	in. 4.8340 4.8334 4.8376 4.8370	4.8886 4.8880 4.8917 4.8911	4. 9439 4. 9433 4. 9459 4. 9453	4. 9576 4. 9570 4. 9594 4. 9588	5.0689 5.0683 5.0709 5.0703	5. 0826 5. 0820 5. 0844 5. 0838	5. 0840 5. 0834 5. 0876 5. 0870	5. 1939 5. 1933 5. 1959 5. 1953	5, 2076 5, 2070 5, 2094 5, 2088	5. 3189 5. 3209 5. 3209 5. 3203
		Class			8	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A	2A 3A
		Series designa- tion			2	ND	UN	NO	UN	UN	UN	UN	NO	UN	ND
		Nominal size and threads	per inch		1	5-4 or 5.000-4	5.000-6	5.000-12	5.000-16	5,48-12 or	5)/\$-16 or	5,250-4	5.250-12	5.250-16	5,375-12 or

538-16 or 5. 375-16	5½-4 or 5. 500-4	5½-12 or 5, 500-12	5.500-16 or	558-12 or 5.625-12	558-16 or 5. 625-16	534-4 or 5. 750-4	534-12 or 5.750-12	534-16 or 5. 750-16	578-12 or 5. 875-12	578-16 or 5. 875-16	6-4 or 6. 000-4	6. 000-12	6-16 or 6.000-16
ND	ND	ND	UN	ND	UN	ND.	NO	ND	ND	ND	ND	ND	ND
2B	2B	2B	2B	2B	2B	2B	2B	2B	2B	2B	2B	2B	2B
3B	3B	3B	3B	3B	3B	3B	3B	3B	3B	3B	3B	3B	533
5. 32100	5. 26700	5. 42800	5. 44600	5, 55300	5. 57100	5. 51700	5. 67800	5. 69600	5.80300	5. 82100	5. 76700	5. 92800	5. 94600
5. 32075	5. 26675	5. 42775	5. 44575	5, 55275	5. 57075	5. 51675	5. 67775	5. 69575	5.80275	5. 82075	5. 76675	5. 92775	5. 94575
5. 31580	5. 25940	5. 41980	5. 44080	5, 54480	5. 56580	5. 50940	5. 66980	5. 69080	5.79480	5. 81580	5. 75940	5. 91980	5. 94080
5. 31555	5. 25915	5. 41955	5. 44055	5, 54455	5. 56555	5. 50915	5. 66955	5. 69055	5.79455	5. 81555	5. 75915	5. 91955	5. 94055
5. 30700	5, 22900	5, 41000	5, 43200	5. 53500	5, 55700	5. 47900	5. 66000	5. 68220	5, 78500	5. 80700	5. 72900	5. 91000	5. 93200
5. 30725	5, 22925	5, 41025	5, 43225	5. 53525	5, 55725	5. 47925	5. 66025	5. 68225	5, 78525	5. 80725	5. 72925	5. 91025	5. 93225
5. 30700	5, 22900	5, 41000	5, 43200	5. 53500	5, 55700	5. 47900	5. 66000	5. 68200	5, 78500	5. 80700	5. 72900	5. 91000	5. 93200
5. 30725	5, 22925	5, 41025	5, 43225	5. 53525	5, 55725	5. 47525	5. 66025	5. 68225	5, 78525	5. 80725	5. 72925	5. 91025	5. 93225
5. 3423	5, 3534	5. 4546	5, 4673	5. 5799	5, 5925	5. 6035	5. 7049	5. 7175	5.8299	5.8425	5. 8537	5. 9549	5, 9675
5. 3429	5, 3540	5. 4552	5, 4679	5. 5805	5, 5931	5. 6041	5. 7055	5. 7181	5.8305	5.8431	5. 8543	5. 9555	5, 9681
5. 3403	5, 3494	5. 4525	5, 4653	5. 5776	5, 5905	5. 5955	5. 7026	5. 7155	5.8276	5.8405	5. 8496	5. 9526	5, 9655
5. 3409	5, 3500	5. 4531	5, 4659	5. 5782	5, 5911	5. 6001	5. 7032	5. 7161	5.8282	5.8411	5. 8502	5. 9532	5, 9661
5. 3423	5, 3534	5. 4546	5. 4673	5, 5799	5, 5925	5, 6035	5. 7049	5. 7175	5.8299	5, 8425	5.8537	5, 9549	5, 9675
5. 3417	5, 3528	5. 4540	5. 4667	5, 5793	5, 5919	5, 6029	5. 7043	5. 7169	5.8293	5, 8419	5.8531	5, 9543	5, 9669
5. 3403	5, 3494	5. 4525	5. 4653	5, 5776	5, 5905	5, 5995	5. 7026	5. 7155	5.8276	5, 8405	5.8496	5, 9526	5, 9655
5. 3397	5, 3488	5. 4519	5. 4647	5, 5770	5, 5899	5, 5989	5. 7020	5. 7149	5.8270	5, 8399	5.8490	5, 9520	5, 9649
5.3694	5, 4617	5. 4907	5, 4944	5.6160	5.6196	5. 7118	5. 7410	5. 7446	5.8660	5.8696	5. 9620	5.9910	5. 9946
5.3685	5, 4602	5. 4898	5, 4935	5.6151	5.6187	5. 7103	5. 7401	5. 7437	5.8651	5.8687	5. 9605	5.9901	5. 9937
5.3674	5, 4577	5. 4886	5, 4924	5.6137	5.6176	5. 7078	5. 7387	5. 7426	5.8637	5.8676	5. 9579	5.9887	5. 9926
5.3665	5, 4562	5. 4877	5, 4915	5.6128	5.6167	5. 7063	5. 7378	5. 7417	5.8628	5.8667	5. 9564	5.9878	5. 9917
5. 3344	5, 3376	5, 4459	5. 4554	5. 5709	5. 5844	5. 5876	5. 6959	5. 7094	5. 8209	5.8344	5.8376	5. 9459	5.9594
5. 3350	5, 3382	5, 4465	5. 4600	5. 5715	5. 5850	5. 5882	5. 6965	5. 7100	5. 8215	5.8350	5.8382	5. 9465	5.9500
5. 3344	5, 3376	5, 4459	5. 4594	5. 5709	5. 5844	5. 5876	5. 6959	5. 7094	5. 8209	5.8344	5.8376	5. 9459	5.9594
5. 3350	5, 3382	5, 4465	5. 4600	5. 5715	5. 5850	5. 5882	5. 6965	5. 7100	5. 8215	5.8350	5.8376	5. 9465	5.9600
5. 3750	5.5000	5, 5000	5. 5000	5. 6250	5. 6250	5. 7500	5.7500	5, 7500	5. 8750	5.8750	6.0000	6. 0000	6. 0000
5. 3759	5.5015	5, 5009	5. 5009	5. 6259	5. 6259	5. 7515	5.7509	5, 7509	5. 8759	5.8759	6.0015	6. 0009	6. 0000
5. 3759	5.5000	5, 5000	5. 5009	5. 6250	5. 6250	5. 7500	5.7500	5, 7509	5. 8750	5.8750	6.0000	6. 0009	6. 0000
5. 3759	5.5015	5, 5009	5. 5009	5. 6259	5. 6259	5. 7515	5.7500	5, 7509	5. 8750	5.8750	6.0015	6. 0009	6. 0009
5.36380°	5, 47260	5, 48660	5. 48880	5. 61150	5. 61370	5, 72250	5, 73650	5, 73870	5, 86150	5.86370	5. 97250	5. 98650	5. 98870
5.36405	5, 47285	5, 48685	5. 48905	5. 61175	5. 61395	5, 72275	5, 73675	5, 73895	5, 86175	5.86395	5. 97275	5. 98675	5. 98895
5.36560	5, 47620	5, 48860	5. 49060	5. 61360	5. 61560	5, 72620	5, 73860	5, 74060	5, 86360	5.86560	5. 97620	5. 98860	5. 99060
5.36585	5, 47645	5, 48885	5. 49085	5. 61385	5. 61585	5, 72645	5, 73885	5, 74085	5, 86385	5.86585	5. 97645	5. 98885	5. 99085
5. 37295	5, 49640	5. 49800	5, 49820	5. 62290	5. 62310	5. 74630	5. 74790	5, 74810	5. 87290	5. 87310	5. 99630	5, 99790	5. 99810
5. 37295	5, 49615	5. 49775	5, 49795	5. 62265	5. 62285	5. 74605	5. 74765	5, 74785	5. 87265	5. 87285	5. 99605	5, 99765	5. 99785
5. 37500	5, 50000	5. 50000	5, 50000	5. 62500	5. 62500	5. 75000	5. 75000	5, 75000	5. 87500	5. 87500	6. 00000	6, 00000	6. 00000
5. 37475	5, 49975	5. 49975	5, 49975	5. 62475	5. 62475	5. 74975	5. 74975	5, 74975	5. 87475	5. 87475	5. 99975	5, 99975	5. 99975
5. 3130 5. 3139 5. 3164 5. 3173	5. 2678 5. 2693 5. 2744 5. 2759	5. 4192 5. 4201 5. 4229 5. 4238	5, 4380 5, 4389 5, 4414 5, 4423	5. 5439 5. 5448 5. 5477 5. 5486	5.5628 5.5637 5.5662 5.5662 5.5671	5. 5176 5. 5191 5. 5243 5. 5258	5. 6689 5. 6698 5. 6727 5. 6736	5. 6878 5. 6887 5. 6912 5. 6921	5. 7939 5. 7948 5. 7977 5. 7986	5. 8128 5. 8137 5. 8162 5. 8171	5. 7674 5. 7689 5. 7742 5. 7757	5. 9189 5. 9198 5. 9227 5. 9236	5. 9378 5. 9387 5. 9412 5. 9421
5. 3265	5. 3219	5. 4372	5. 4515	5. 5619	5. 5763	5. 5717	5. 6869	5. 7013	5.8119	5. 8263	5.8215	5. 9369	5.9513
5. 3259	5. 3213	5. 4366	5. 4509	5. 5613	5. 5757	5. 5711	5. 6863	5. 7007	5.8113	5. 8257	5.8209	5. 9363	5.9507
5. 3299	5. 3285	5. 4409	5. 4549	5. 5657	5. 5797	5. 5784	5. 6907	5. 7047	5.8157	5. 8297	5.8283	5. 9407	5.9547
5. 3293	5. 3279	5. 4403	5. 4543	5. 5651	5. 5791	5. 5778	5. 6901	5. 7041	5.8151	5. 8291	5.8277	5. 9401	5.9541
5. 3265	5, 3219	5, 4372	5. 4515	5. 5619	5. 5763	5. 5717	5.6869	5. 7013	5. 8119	5. 8263	5.8215	5. 9369	5, 9513
5. 3271	5, 3225	5, 4378	5. 4521	5. 5625	5. 5769	5. 5723	5.6875	5. 7019	5. 8125	5. 8269	5.8221	5. 9375	5, 9519
5. 3299	5, 3285	5, 4409	5. 4549	5. 5657	5. 5797	5. 5784	5.6907	5. 7047	5. 8157	5. 8297	5.8283	5. 9407	5, 9547
5. 3305	5, 3291	5, 4415	5. 4555	5. 5663	5. 5803	5. 5790	5.6913	5. 7053	5. 8163	5. 8303	5.8289	5. 9413	5, 9553
5. 3055	5. 2257	5. 4078	5. 4305	5. 5327	5. 5554	5. 4756	5. 6577	5. 6804	5. 7827	5. 8054	5. 7256	5. 9077	5. 9304
5. 3046	5. 2242	5. 4069	5. 4296	5. 5318	5. 5545	5. 4741	5. 6568	5. 6795	5. 7818	5. 8045	5. 7241	5. 9068	5. 9295
5. 3073	5. 2293	5. 4098	5. 4323	5. 5348	5. 5573	5. 4793	5. 6598	5. 6823	5. 7848	5. 8073	5. 7293	5. 9098	5. 9323
5. 3064	5. 2278	5. 4089	5. 4314	5. 5339	5. 5564	5. 4778	5. 6589	5. 6814	5. 7839	5. 8064	5. 7298	5. 9089	5. 9314
5. 3326	5. 3340	5. 4439	5. 4576	5. 5688	5.5825	5. 5839	5.6938	5. 7075	5.8188	5.8325	5.8339	5. 9438	5. 9575
5. 3320	5. 3334	5. 4433	5. 4570	5. 5682	5.5819	5. 5833	5.6932	5. 7069	5.8182	5.8319	5.8333	5. 9432	5. 9569
5. 3344	5. 3376	5. 4459	5. 4594	5. 5709	5.5844	5. 5876	5.6959	5. 7094	5.8209	5.8344	5.8376	5. 9459	5. 9594
5. 3338	5. 3370	5. 4453	5. 4588	5. 5703	5.5838	5. 5870	5.6953	5. 7088	5.8203	5.8338	5.8370	5. 9453	5. 9588
2A	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A
3A	3A	3A	3A	3A	3A	3A	3A	3A	3A	3A	3A	3A	3A
N	UN	ND	NO	ND	ND	ND	ND	ND	UN	NO	N.D	ND	UN
538–16 or 5. 375–16	5½-4 or 5, 500-4	5½-12 or 5. 500-12	512-16 or 5.500-16	558-12 or 5. 625-12	558-16 or 5. 625-16	534-4 or 5.750-4	534-12 or 5. 750-12	534-16 or 5. 750-16	578-12 or 5. 875-12	578-16 or 5.875-16	6. 000-4	6.000-12	6. 000-16

Table III.13.—Setting plug gages, Unified screw threads

			IABLE	111.10.	—Setting	eated setting				l	Basic-crest s	setting Dlug	79
			Plug for	GO threa				T GO thr	ead gage		Major d		
Nominal size and threads per inch	Series designa- tion	Class	Major d		Pitch	Major d		Pitch d		Plug for thread		Plug for NOT G	LO or •.• O thread
			Trun- cated	Full	diameter	Trun- cated	Full	Plus tolerance gage	Minus tolerance gage	W tolerance	X tolerance	W tolerance	X tolerance
1	2	3	4	5	6	7	8	9	10	11 A	11B	12A	12B
0-80 or .060-80	UNF	2A 3A	in. 0. 0561 . 0558 . 0566 . 0563	in. 0. 0595 0. 0598 0600 0603	in. 0. 0514 . 0513 . 0519 . 0518	in. 0. 0550 . 0547 . 0560 . 0557	in. 0. 0584 . 0587 . 0594 . 0597	in. 0.0496 .0497 .0506 .0507	in. 0. 0496 . 0495 . 0506 . 0505	in. 0.0595 .0598 .0600 .0603	in. 0. 0595 . 0598 . 0600 . 0603	in. 0. 0584 . 0587 . 0594 . 0597	in. 0. 0584 . 0587 . 0594 . 0597
1-64 or .073-64	UNC	2A 3A	. 0684 . 0681 . 0690 . 0687	. 0724 . 0727 . 0730 . 0733	. 0623 . 0622 . 0629 . 0628	. 0671 . 0668 . 0682 . 0679	. 0717 . 0720 . 0728 . 0731	. 0603 . 0604 . 0614 . 0615	. 0603 . 0602 . 0614 . 0613	. 0724 . 0727 . 0730 . 0733	. 0724 . 0728 . 0730 . 0734	. 0717 . 0720 . 0728 . 0731	. 0717 . 0721 . 0728 . 0732
1-72 or .073-72	UNF	2A 3A	. 0687 . 0684 . 0693 . 0690	. 0724 . 0727 . 0730 . 0733	. 0634 . 0633 . 0640 . 0639	. 0675 . 0672 . 0686 . 0683	. 0715 . 0718 . 0726 . 0729	. 0615 . 0616 . 0626 . 0627	. 0615 . 0614 . 0626 . 0625	. 0724 . 0727 . 0730 . 0733	. 0724 . 0727 . 0730 . 0733	. 0715 . 0718 . 0726 . 0729	. 0718 . 0718 . 0726 . 0729
2-56 or .086-56	UNC	2A 3A	. 0810 . 0807 . 0816 . 0813	. 0854 . 0857 . 0860 . 0863	. 0738 . 0737 . 0744 . 0743	. 0794 . 0791 . 0805 . 0802	. 0850 . 0853 . 0860 . 0863	. 0717 . 0718 . 0728 . 0729	. 0717 . 0716 . 0728 . 0727	. 0854 . 0857 . 0860 . 0863	. 0854 . 0858 . 0860 . 0864	. 0850 . 0853 . 0860 . 0863	. 0850 . 0854 . 0860 . 0864
2-64 or .086-64	UNF	2A 3A	. 0814 . 0811 . 0820 . 0817	. 0854 . 0857 . 0860 . 0863	. 0753 . 0752 . 0759 . 0758	. 0801 . 0798 . 0812 . 0809	. 0847 . 0850 . 0858 . 0861	. 0733 . 0734 . 0744 . 0745	. 0733 . 0732 . 0744 . 0743	. 0854 . 0857 . 0860 . 0863	. 0854 . 0858 . 0860 . 0864	. 0847 . 0850 . 0858 . 0861	. 0847 . 0851 . 0858 . 0862
3-48 or .099-48	UNC	2A 3A	. 0934 . 0931 . 0941 . 0938	. 0983 . 0986 . 0990 . 0993	. 0848 . 0847 . 0855 . 0854	. 0915 . 0912 . 0928 . 0925	. 0981 . 0984 . 0990 . 0993	. 0825 . 0826 . 0838 . 0839	. 0825 . 0824 . 0838 . 0837	. 0983 . 0986 . 0990 . 0993	. 0983 . 0987 . 0990 . 0994	. 0981 . 0984 . 0990 . 0993	. 0981 . 0985 . 0990 . 0994
3-56 or .099-56	UNF	2A 3A	. 0939 . 0936 . 0946 . 0943	. 0983 . 0986 . 0990 . 0993	. 0867 . 0866 . 0874 . 0873	. 0922 . 0919 . 0935 . 0932	. 0978 . 0981 . 0990 . 0993	. 0845 . 0846 . 0858 . 0859	. 0845 . 0844 . 0858 . 0857	. 0983 . 0986 . 0990 . 0993	. 0983 . 0987 . 0990 . 0994	. 0978 . 0981 . 0990 . 0993	. 0978 . 0982 . 0990 . 0994
4-40 or .112-40	UNC	2A 3A	. 1056 . 1053 . 1064 . 1061	. 1112 . 1115 . 1120 . 1123	. 0950 . 0949 . 0958 . 0957	. 1033 . 1030 . 1047 . 1044	. 1112 . 1115 . 1120 . 1123	. 0925 . 0926 . 0939 . 0940	. 0925 . 0924 . 0939 . 0938	. 1112 . 1115 . 1120 . 1123	. 1112 . 1116 . 1120 . 1124	. 1112 . 1115 . 1120 . 1123	. 1112 . 1116 . 1120 . 1124
4-48 or .112-48	UNF	2A 3A	. 1064 . 1061 . 1071 . 1068	. 1113 . 1116 . 1120 . 1123	. 0978 . 0977 . 0985 . 0984	. 1044 . 1041 . 1057 . 1054	. 1110 . 1113 . 1120 . 1123	. 0954 . 0955 . 0967 . 0968	. 0954 . 0953 . 0967 . 0966	. 1113 . 1116 . 1120 . 1123	. 1113 . 1117 . 1120 . 1124	. 1110 . 1113 . 1120 . 1123	. 1110 . 1114 . 1120 . 1124
5–40 or .125–40	UNC	2A 3A	. 1186 . 1183 . 1194 . 1191	. 1242 . 1245 . 1250 . 1253	. 1080 . 1079 . 1088 . 1087	. 1162 . 1159 . 1177 . 1174	. 1242 . 1245 . 1250 . 1253	. 1054 . 1055 . 1069 . 1070	. 1054 . 1053 . 1069 . 1068	. 1242 . 1245 . 1250 . 1253	. 1242 . 1246 . 1250 . 1254	. 1242 . 1245 . 1250 . 1253	. 1242 . 1246 . 1250 . 1254
5–44 or .125–44	UNF	2A 3A	. 1191 . 1188 . 1198 . 1195	. 1243 . 1246 . 1250 . 1253	. 1095 . 1094 . 1102 . 1101	. 1168 . 1165 . 1181 . 1178	. 1240 . 1243 . 1250 . 1253	. 1070 . 1071 . 1083 . 1084	. 1070 . 1069 . 1083 . 1082	. 1243 . 1246 . 1250 . 1253	. 1243 . 1247 . 1250 . 1254	. 1240 . 1243 . 1250 . 1253	. 1240 . 1244 . 1250 . 1254
6-32 or .138-32	UNC	2A 3A	. 1307 . 1304 . 1315 . 1312	. 1372 . 1375 . 1380 . 1383	. 1169 . 1168 . 1177 . 1176	. 1276 . 1273 . 1291 . 1288	. 1372 . 1375 . 1380 . 1383	. 1141 . 1142 . 1156 . 1157	. 1141 . 1140 . 1156 . 1155	. 1372 . 1375 . 1380 . 1383	. 1372 . 1377 . 1380 . 1385	. 1372 . 1375 . 1380 . 1383	. 1372 . 1377 . 1380 . 1385
6-40 or .138-40	UNF	2A 3A	. 1316 . 1313 . 1324 . 1321	. 1372 . 1375 . 1380 . 1383	. 1210 . 1209 . 1218 . 1217	. 1292 . 1289 . 1306 . 1303	. 1372 . 1375 . 1380 . 1383	. 1184 . 1185 . 1198 . 1199	. 1184 . 1183 . 1198 . 1197	. 1372 . 1375 . 1380 . 1383	. 1372 . 1376 . 1380 . 1384	. 1372 . 1375 . 1380 . 1383	. 1372 . 1376 . 1380 . 1384
8-32 or .164-32	UNC	2A 3A	. 1566 . 1563 . 1575 . 1572	. 1631 . 1634 . 1640 . 1643	. 1428 . 1427 . 1437 . 1436	. 1534 . 1531 . 1550 . 1547	. 1631 . 1634 . 1640 . 1643	. 1399 . 1400 . 1415 . 1416	. 1399 . 1398 . 1415 . 1414	. 1631 . 1634 . 1640 . 1643	. 1631 . 1636 . 1640 . 1645	. 1631 . 1634 . 1640 . 1643	. 1631 . 1636 . 1640 . 1645
8–36 or .164–36	UNF	2A 3A	. 1572 . 1569 . 1580 . 1577	. 1632 . 1635 . 1640 . 1643	. 1452 . 1451 . 1460 . 1459	. 1544 . 1541 . 1559 . 1556	. 1632 . 1635 . 1640 . 1643	. 1424 . 1425 . 1439 . 1440	. 1424 . 1423 . 1439 . 1438	. 1632 . 1635 . 1640 . 1643	. 1632 . 1636 . 1640 . 1644	. 1632 . 1635 . 1640 . 1643	. 1632 . 1636 . 1640 . 1644
10-24 or .190-24	UNC	2A 3A	. 1811 . 1806 . 1821 . 1816	. 1890 . 1895 . 1900 . 1905	. 1619 . 1618 . 1629 . 1628	. 1766 . 1761 . 1784 . 1779	. 1890 . 1895 . 1900 . 1905	. 1586 . 1587 . 1604 . 1605	. 1586 . 1585 . 1604 . 1603	. 1890 . 1895 . 1900 . 1905	. 1890 . 1895 . 1900 . 1905	. 1890 . 1895 . 1900 . 1905	. 1890 . 1895 . 1900 . 1905

Table III.13.—Setting plug gages, Unified screw threads—Continued

			LE 111.10		ng prag g	-3	.,			inded			
					W trunc	cated settin	g plugs			F	Basic-crest s	etting plug	(S
			Plug for	GO threa	d gage∙	Plug for	LO or NO	T GO thre	ad gage •		Major d	iameter	
Nominal size and threads per inch	Series designa- tion	Class	Major d	iameter	Pitch	Major d	lameter	Pitch d	iameter	Plug for threa	r GOa, b d gage	Plug for I NOT G	O thread
			Trun- cated	Full	diameter	Trun- cated	Full	Plus tolerance gage	Minus tolerance gage	W tolerance	X tolerance	W tolerance	X tolerance
1	2	3	4	5	6	7	8	9	10	11A	11B	12A	12B
10–32 or .190–32	UNF	2A 3A	in. . 1826 . 1823 . 1835 . 1832	in. . 1891 . 1894 . 1900 . 1903	in. . 1688 . 1687 . 1697 . 1696	in. . 1793 . 1790 . 1809 . 1806	in. . 1891 . 1894 . 1900 . 1903	in. . 1658 . 1659 . 1674 . 1675	in. . 1658 . 1657 . 1674 . 1673	in. . 1891 . 1894 . 1900 . 1903	in. .1891 .1896 .1900 .1905	in. . 1891 . 1894 . 1900 . 1903	in. . 1891 . 1896 . 1900 . 1905
12-24 or . 216-24	UNC	2A 3A	. 2071 . 2066 . 2081 . 2076	. 2150 . 2155 . 2160 . 2165	. 1879 . 1878 . 1889 . 1888	. 2025 . 2020 . 2043 . 2038	. 2150 . 2155 . 2160 . 2165	. 1845 . 1846 . 1863 . 1864	. 1845 . 1844 . 1863 . 1862	. 2150 . 2155 . 2160 . 2165			
12–28 or . 216–28	UNF	2A 3A	. 2079 . 2074 . 2089 . 2084	. 2150 . 2155 . 2160 . 2165	. 1918 . 1917 . 1928 . 1927	. 2041 . 2036 . 2059 . 2054	. 2150 . 2155 . 2160 . 2165	. 1886 . 1887 . 1904 . 1905	. 1886 . 1885 . 1904 . 1903	. 2150 . 2155 . 2160 . 2165			
12-32 or . 216-32	UNEF	2A 3A	. 2086 . 2083 . 2095 . 2092	. 2151 . 2154 . 2160 . 2163	. 1948 . 1947 . 1957 . 1956	. 2052 . 2049 . 2068 . 2065	. 2151 . 2154 . 2160 . 2163	. 1917 . 1918 . 1933 . 1934	. 1917 . 1916 . 1933 . 1932	. 2151 . 2154 . 2160 . 2163	. 2151 . 2156 . 2160 . 2165	. 2151 . 2154 . 2160 . 2163	. 2151 . 2156 . 2160 . 2165
¹ ⁄ ₄ -20 or . 250-20	UNC	1A 2A 3A	. 2399 . 2394 . 2399 . 2394 . 2410 . 2405	. 2489 . 2494 . 2489 . 2494 . 2500 . 2505	. 2164 . 2163 . 2164 . 2163 . 2175 . 2174	. 2325 . 2320 . 2344 . 2339 . 2364 . 2359	. 2483 . 2488 . 2489 . 2494 . 2500 . 2505	. 2108 . 2109 . 2127 . 2128 . 2147 . 2148	. 2108 . 2107 . 2127 . 2126 . 2147 . 2146	. 2489 . 2494 . 2489 . 2494 . 2500 . 2505	. 2489 . 2494 . 2489 . 2494 . 2500 . 2505	. 2483 . 2488 . 2489 . 2494 . 2500 . 2505	. 2483 . 2488 . 2489 . 2494 . 2500 . 2505
½-28 or . 250-28	UNF	1A 2A 3A	. 2419 . 2414 . 2419 . 2414 . 2429 . 2424	. 2490 . 2495 . 2490 . 2495 . 2500 . 2505	. 2258 . 2257 . 2258 . 2257 . 2268 . 2267	. 2363 . 2358 . 2380 . 2375 . 2398 . 2393	. 2476 . 2481 . 2490 . 2495 . 2500 . 2505	. 2208 . 2209 . 2225 . 2226 . 2243 . 2244	. 2208 . 2207 . 2225 . 2224 . 2243 . 2242	. 2490 . 2495 . 2490 . 2495 . 2500 . 2505	. 2490 . 2495 . 2490 . 2495 . 2500 . 2505	. 2476 . 2481 . 2490 . 2495 . 2500 . 2505	. 2476 . 2481 . 2490 . 2495 . 2500 . 2505
1/4-32 . 250-32	UNEF	2A 3A	. 2425 . 2422 . 2435 . 2432	. 2490 . 2493 . 2500 . 2503	. 2287 . 2286 . 2297 . 2296	. 2390 . 2387 . 2408 . 2405	. 2489 . 2492 . 2500 . 2503	. 2255 . 2256 . 2273 . 2274	. 2255 . 2254 . 2273 . 2272	. 2490 . 2493 . 2500 . 2503	. 2490 . 2495 . 2500 . 2505	. 2489 . 2492 . 2500 . 2503	. 2489 . 2494 . 2500 . 2505
5/16-18 or . 3125-18	UNC	1A 2A 3A	. 3016 . 3011 . 3016 . 3011 . 3028 . 3023	. 3113 . 3118 . 3113 . 3118 . 3125 . 3130	. 2752 . 2751 . 2752 . 2751 . 2764 . 2763	. 2932 . 2927 . 2953 . 2948 . 2975 . 2970	. 3108 . 3113 . 3113 . 3118 . 3125 . 3130	. 2691 . 2692 . 2712 . 2713 . 2734 . 2735	. 2691 . 2690 . 2712 . 2711 . 2734 . 2733	. 3113 . 3118 . 3113 . 3118 . 3125 . 3130	.3113 .3118 .3113 .3118 .3125 .3130	. 3108 . 3113 . 3113 . 3118 . 3125 . 3130	. 3108 . 3113 . 3113 . 3118 . 3125 . 3130
5/16-20 or . 3125-20	UN	2 A 3 A	. 3023 . 3018 . 3035 . 3030	. 3113 . 3118 . 3125 . 3130	. 2788 . 2787 . 2800 . 2799	. 2965 . 2960 . 2987 . 2982	. 3113 . 3118 . 3125 . 3130	. 2748 . 2749 . 2770 . 2771	. 2748 . 2747 . 2770 . 2769	. 3113 . 3118 . 3125 . 3130			
5/16-24 or . 3125-24	UNF	1 A 2 A 3 A	. 3035 . 3030 . 3035 . 3030 . 3046 . 3041	. 3114 . 3119 . 3114 . 3119 . 3125 . 3130	. 2843 . 2842 . 2843 . 2842 . 2854 . 2853	. 2968 . 2963 . 2986 . 2981 . 3007 . 3002	. 3100 . 3105 . 3114 . 3119 . 3125 . 3130	. 2788 . 2789 . 2806 . 2807 . 2827 . 2828	. 2788 . 2787 . 2806 . 2805 . 2827 . 2826	. 3114 . 3119 . 3114 . 3119 . 3125 . 3130	. 3114 . 3119 . 3114 . 3119 . 3125 . 3130	. 3100 . 3105 . 3114 . 3119 . 3125 . 3130	.3100 .3105 .3114 .3119 .3125 .3130
5/16-28 or . 3125-28	UN	2A 3A	. 3044 . 3039 . 3054 . 3049	. 3115 . 3120 . 3125 . 3130	. 2883 . 2882 . 2893 . 2892	. 3004 . 2999 . 3022 . 3017	. 3115 . 3120 . 3125 . 3130	. 2849 . 2850 . 2867 . 2868	. 2849 . 2848 . 2867 . 2866	. 3115 . 3120 . 3125 . 3130			
5/16-32 or . 3125-32	UNEF	2A 3A	. 3050 . 3047 . 3060 . 3057	. 3115 . 3118 . 3125 . 3128	. 2912 . 2911 . 2922 . 2921	. 3015 . 3012 . 3033 . 3030	. 3114 . 3117 . 3125 . 3128	. 2880 . 2881 . 2898 . 2899	. 2880 . 2879 . 2898 . 2897	. 3115 . 3118 . 3125 . 3128	. 3115 . 3120 . 3125 . 3130	.3114 .3117 .3125 .3128	. 3114 . 3119 . 3125 . 3130
36-16 or . 375-16	UNC	1 A 2 A 3 A	. 3632 . 3626 . 3632 . 3626 . 3645 . 3639	. 3737 . 3743 . 3737 . 3743 . 3750 . 3756	. 3331 . 3330 . 3331 . 3330 . 3344 . 3343	. 3537 . 3531 . 3558 . 3552 . 3582 . 3576	. 3735 . 3741 . 3737 . 3743 . 3750 . 3756	. 3266 . 3267 . 3287 . 3288 . 3311 . 3312	. 3266 . 3265 . 3287 . 3286 . 3311 . 3310	. 3737 . 3743 . 3737 . 3743 . 3750 . 3756	. 3737 . 3743 . 3737 . 3743 . 3750 . 3756	. 3735 . 3741 . 3737 . 3743 . 3750 . 3756	. 3735 . 3741 . 3737 . 3743 . 3750 . 3756
36-20 or . 375-20	UN	2A 3A	. 3648 . 3643 . 3660 . 3655	. 3738 . 3743 . 3750 . 3755	. 3413 . 3412 . 3425 . 3424	. 3589 . 3584 . 3611 . 3606	. 3738 . 3743 . 3750 . 3755	. 3372 . 3373 . 3394 . 3395	. 3372 . 3371 . 3394 . 3393	. 3738 . 3743 . 3750 . 3755			

Table III.13.—Setting plug gages, Unified screw threads—Continued

					W trun	cated settir	ng plugs			В	asic-crest s	etting plug	gs
			Plug fo	r GO three	ad gage a	Plug for	LO or NO	T GO thre	ad gage •		Major d	iameter	
Nominal size and threads per inch	Series designa- tion	Class	Major d	liameter	Pitch	Major d	iameter	Pitch d	iameter	Plug for thread	GO a.b l gage	Plug for I NOT Ge gas W tolerance 12A in	O thread
			Trun- cated	Full	diameter	Trun- cated	Full	Plus tolerance gage	Minus tolerance gage	W tolerance	X tolerance		X tolerance
, 1	2	3	4	5	6	7	8	9	10	11 A	11B	12A	12B
³,6-24 or . 375-24	UNF	1A 2A 3A	in 3660 . 3655 . 3660 . 3655 . 3671 . 3666	in. . 3739 . 3744 . 3739 . 3744 . 3750 . 3755	in. . 3468 . 3467 . 3468 . 3467 . 3479 . 3478	in. . 3591 . 3586 . 3610 . 3605 . 3630 . 3625	in. . 3724 . 3729 . 3739 . 3744 . 3750 . 3755	in 3411 . 3412 . 3430 . 3431 . 3450 . 3451	in 3411 . 3410 . 3430 . 3429 . 3450 . 3449	in 3739 . 3744 . 3739 . 3744 . 3750 . 3755	in 3739 . 3744 . 3739 . 3744 . 3750 . 3755	. 3724 . 3729 . 3739 . 3744 . 3750	in. . 37. . 37. . 37. . 37. . 37. . 37.
3/6-28 or . 375-28	UN	2A 3A	. 3668 . 3663 . 3679 . 3674	. 3739 . 3744 . 3750 . 3755	. 3507 . 3506 . 3518 . 3517	. 3626 . 3621 . 3646 . 3641	. 3739 . 3744 . 3750 . 3755	. 3471 . 3472 . 3491 . 3492	. 3471 . 3470 . 3491 . 3490	. 3739 . 3744 . 3750 . 3755	. 3739 . 3744 . 3750 . 3755	. 3744 . 3750	. 37 . 37 . 37 . 37
3%-32 or . 375-32	UNEF	2A 3A	. 3675 . 3672 . 3685 . 3682	. 3740 . 3743 . 3750 . 3753	. 3537 . 3536 . 3547 . 3546	. 3638 . 3635 . 3657 . 3654	. 3737 . 3740 . 3750 . 3753	. 3503 . 3504 . 3522 . 3523	. 3503 . 3502 . 3522 . 3521	. 3740 . 3743 . 3750 . 3753	. 3740 . 3745 . 3750 . 3755	. 3740	. 37 . 37 . 37 . 37
										W and X	tolerances	W and X	tolerano
%6-14 or .4375-14	UNC	1A 2A 3A	. 4246 . 4240 . 4246 . 4240 . 4260 . 4254	. 4361 . 4367 . 4361 . 4367 . 4375 . 4381	. 38970 . 38955 . 38970 . 38955 . 39110 . 39095	. 4135 . 4129 . 4159 . 4153 . 4185 . 4179	. 4361 . 4367 . 4361 . 4367 . 4375 . 4381	. 38260 . 38275 . 38500 . 38515 . 38760 . 38775	. 38260 . 38245 . 38500 . 38485 . 38760 . 38745	.4	361 367 361 367 375 381	. 4 . 4 . 4	361 367 361 367 375 381
7/16-16 or . 4375-16	UN	2 A 3 A	. 4256 . 4250 . 4270 . 4264	. 4361 . 4367 . 4375 . 4381	. 3955 . 3954 . 3969 . 3968	. 4180 . 4174 . 4206 . 4200	. 4361 . 4367 . 4375 . 4381	. 3909 . 3910 . 3935 . 3936	. 3909 . 3908 . 3935 . 3934	.4	361 367 375 381	.4	361 367 375 381
7/16-20 or . 4375-20	UNF	1A 2A 3A	. 4272 . 4267 . 4272 . 4267 . 4285 . 4280	. 4362 . 4367 . 4362 . 4367 . 4375 . 4380	. 4037 . 4036 . 4037 . 4036 . 4050 . 4049	. 4191 . 4186 . 4212 . 4207 . 4236 . 4231	. 4350 . 4355 . 4362 . 4367 . 4375 . 4380	. 3974 . 3975 . 3995 . 3996 . 4019 . 4020	. 3974 . 3973 . 3995 . 3994 . 4019 . 4018	.4	362 367 362 367 375 380	. 4 . 4 . 4	350 355 362 367 375 380
7∕16−28 or . 4375−28	UNEF	2A 3A	. 4293 . 4288 . 4304 . 4299	. 4364 . 4369 . 4375 . 4380	. 4132 . 4131 . 4143 . 4142	. 4251 . 4246 . 4271 . 4266	. 4364 . 4369 . 4375 . 4380	. 4096 . 4097 . 4116 . 4117	. 4096 . 4095 . 4116 . 4115	.4	364 369 375 380	.4	364 369 375 380
7∕16-32 or . 4375-32	UN	2A 3A	. 4300 . 4297 . 4310 . 4307	. 4365 . 4368 . 4375 . 4378	. 4162 . 4161 . 4172 . 4171	. 4263 . 4260 . 4282 . 4279	. 4362 . 4367 . 4375 . 4380	. 4128 . 4129 . 4147 . 4148	.4128 1.4127 .4147 .4146	.4	365 368 375 378	.4	362 367 375 380
½–13 or . 500–13	UNC	1A 2A 3A	. 4863 . 4857 . 4863 . 4857 . 4878 . 4872	. 4985 . 4991 . 4985 . 4991 . 5000 . 5006	. 44850 . 44835 . 44850 . 44835 . 45000 . 44985	. 4744 . 4738 . 4768 . 4762 . 4796 . 4790	. 4985 . 4991 . 4985 . 4991 . 5000 . 5006	. 44110 . 44125 . 44350 . 44365 . 44630 . 44645	. 44110 . 44095 . 44350 . 44335 . 44630 . 44615	.49	985 991 985 991 000	. 4! . 4! . 5!	985 991 000
½-16 or . 500–16	UN	2A 3A	. 4881 . 4875 . 4895 . 4889	. 4986 . 4992 . 5000 . 5006	. 4580 . 4579 . 4594 . 4593	. 4804 . 4798 . 4830 . 4824	. 4986 . 4992 . 5000 . 5006	. 4533 . 4534 . 4559 . 4560	. 4533 . 4532 . 4559 . 4558	. 49	986 992 000 006	. 4	986 992 000 006

Table III.13.—Setting plug gages, Unified screw threads—Continued

					W tru	ncated setting	g plugs			Basic-crest	setting plugs
			Plug fo	or GO thread	l gage •	Plug fo	r LO or NO	T GO thread	l gage •	Major	diameter
Nominal size and threads per inch	Series des- ignation	Class	Major d	liameter	Pitch diameter	Major d	iameter	Pitch d	iameter	Plug for GO thread gage	Plug for LO or NOT GO thread gage
			Truncated	Full		Truncated	Full	Plus toler- ance gage	Minus tolerance gage	W and X tolerances	W and X tolerances
1	2	3	4	5	6	7	8	9	10	11	12
½-20 or . 500-20	UNF	1A 2A 3A	in4897 .4892 .4897 .4892 .4910 .4905	in4987 .4992 .4987 .4992 .5000	in 4662 . 4661 . 4662 . 4661 . 4675 . 4674	in 4815 . 4810 . 4836 . 4831 . 4860 . 4855	in. . 4973 . 4978 . 4987 . 4992 . 5000 . 5005	in 4598 . 4599 . 4619 . 4620 . 4643 . 4644	in 4598 . 4597 . 4619 . 4618 . 4643 . 4642	in. . 4987 . 4992 . 4997 . 4992 . 5000 . 5005	in. . 4973 . 4978 . 4987 . 4992 . 5000
1/2-28 or . 500-28	UNEF	2A 3A	. 4918 . 4913 . 4929 . 4924	. 4989 . 4994 . 5000	. 4757 . 4756 . 4768 . 4767	. 4875 . 4870 . 4895 . 4890	. 4988 . 4993 . 5000 . 5005	. 4720 . 4721 . 4740 . 4741	. 4720 . 4719 . 4740 . 4739	. 4989 . 4994 . 5000 . 5005	. 4988 . 4993 . 5000 . 5005
1/2-32 or . 500-32	UN	2A 3A	. 4925 . 4922 . 4935 . 4932	. 4990 . 4993 . 5000 . 5003	. 4787 . 4786 . 4797 . 4796	. 4887 . 4884 . 4906 . 4903	. 4986 . 4991 . 5000 . 5005	. 4752 . 4753 . 4771 . 4772	. 4752 . 4751 . 4771 . 4770	. 4990 . 4993 . 5000 . 5003	. 4986 . 4991 . 5000 . 5005
%6-12 or . 5625-12	UNC	1A 2A 3A	. 5480 . 5474 . 5480 . 5474 . 5496 . 5490	. 5609 . 5615 . 5609 . 5615 . 5625 . 5631	. 5068 . 5066 . 5068 . 5066 . 5084 . 5082	. 5351 . 5345 . 5377 . 5371 . 5406 . 5400	. 5609 . 5615 . 5609 . 5615 . 5625 . 5631	. 4990 . 4992 . 5016 . 5018 . 5045 . 5047	. 4990 . 4988 . 5016 . 5014 . 5045 . 5043	. 5609 . 5615 . 5609 . 5615 . 5625 . 5631	. 5609 . 5615 . 5609 . 5615 . 5625 . 5631
%16-16 or . 5625-16	UN	2A 3A	. 5506 . 5500 . 5520 . 5514	. 5611 . 5617 . 5625 . 5631	. 5205 . 5203 . 5219 . 5217	. 5429 . 5423 . 5455 . 5449	. 5611 . 5617 . 5625 . 5631	. 5158 . 5160 . 5184 . 5186	. 5158 . 5156 . 5184 . 5182	. 5611 . 5617 . 5625 . 5631	. 5611 . 5617 . 5625 . 5631
9/16-18 or . 5625-18	UNF	1A 2A 3A	. 5514 . 5509 . 5514 . 5509 . 5528 . 5523	. 5611 . 5616 . 5611 . 5616 . 5625 . 5630	. 52500 . 52485 . 52500 . 52485 . 52640 . 52625	. 5423 . 5418 . 5446 . 5441 . 5471 . 5466	. 5599 . 5604 . 5611 . 5616 . 5625 . 5630	. 51820 . 51835 . 52050 . 52065 . 52300 . 52315	. 51820 . 51805 . 52050 . 52035 . 52300 . 52285	. 5611 . 5616 . 5611 . 5616 . 5625 . 5630	. 5599 . 5604 . 5611 . 5616 . 5625 . 5630
%6-20 or . 5625-20	UN	2A 3A	. 5522 . 5517 . 5535 . 5530	. 5612 . 5617 . 5625 . 5630	. 52870 . 52855 . 53000 . 52985	. 5462 . 5457 . 5485 . 5480	. 5612 . 5617 . 5625 . 5630	. 52450 . 52465 . 52680 . 52695	. 52450 . 52435 . 52680 . 52665	. 5612 . 5617 . 5625 . 5630	. 5612 . 5617 . 5625 . 5630
%6-24 or . 5625-24	UNEF	2A 3A	. 5534 . 5529 . 5546 . 5541	. 5613 . 5618 . 5625 . 5630	. 53420 . 53405 . 53540 . 53525	. 5483 . 5478 . 5505 . 5500	. 5613 . 5618 . 5625 . 5630	. 53030 . 53045 . 53250 . 53265	. 53030 . 53015 . 53250 . 53235	. 5613 . 5618 . 5625 . 5630	. 5613 . 5618 . 5625 . 5630
94e-28 or . 5625-28	UN	2A 3A	. 5543 . 5538 . 5554 . 5549	. 5614 . 5619 . 5625 . 5630	. 53820 . 53805 . 53930 . 53915	. 5500 . 5495 . 5520 . 5515	. 5613 . 5618 . 5625 . 5630	. 53450 . 53465 . 53650 . 53665	. 53450 . 53435 . 53650 . 53635	. 5614 . 5619 . 5625 . 5630	. 5613 . 5618 . 5625 . 5630
%16-32 or . 5625-32	UN	2A 3A	. 5550 . 5545 . 5560 . 5555	. 5615 . 5620 . 5625 . 5630	. 54120 . 54105 . 54220 . 54205	. 5512 . 5507 . 5531 . 5526	. 5611 . 5616 . 5625 . 5630	. 53770 . 53785 . 53960 . 53975	. 53770 . 53755 . 53960 . 53945	. 5615 . 5620 . 5625 . 5630	. 5611 . 5616 . 5625 . 5630
58-11 or . 625-11	unc	1A 2A 3A	. 6097 . 6091 . 6097 . 6091 . 6113 . 6107	. 6234 . 6240 . 6234 . 6240 . 6250 . 6256	. 5644 . 5642 . 5644 . 5642 . 5660 . 5658	. 5955 . 5949 . 5983 . 5977 . 6013 . 6007	. 6234 . 6240 . 6234 . 6240 . 6250 . 6256	. 5561 . 5563 . 5589 . 5591 . 5619 . 5621	. 5561 . 5559 . 5589 . 5587 . 5619	. 6234 . 6240 . 6234 . 6240 . 6250 . 6256	. 6234 . 6240 . 6234 . 6240 . 6250 . 6256
5%-12 or . 625-12	UN	2A 3A	. 6105 . 6099 . 6121 . 6115	. 6234 . 6240 . 6250 . 6256	. 5693 . 5691 . 5709 . 5707	. 6000 . 5994 . 6029 . 6023	. 6234 . 6240 . 6250 . 6256	. 5639 . 5641 . 5668 . 5670	. 5639 . 5637 . 5668 . 5666	. 6234 . 6240 . 6250 . 6256	. 6234 . 6240 . 6250 . 6256

Table III.13.—Setting plug gages, Unified screw threads—Continued

		I				ncated setting				Basic-crest	setting plugs
			Plug fo	r GO thread	gage •	Plug for	r LO or NO	T GO thread	gage •	Major d	liameter
Nominal size and threads per inch	Series designation	Class	Major d	iameter	Pitch diameter	Major d	iamete r	Pitch d	iameter	Plug for GO thread gage	Plug for LO or NOT GO thread gage
	·		Truncated	Full	dismove.	Truncated	Full	Plus toler- ance gage	Minus tolerance gage	W and X tolerances	W and X tolerances
1	2	3	4	5	6	7	8	9	10	11	12
%-16 or . 625-16	UN	2A 3A	in. . 6131 . 6125 . 6145 . 6139	in. . 6236 . 6242 . 6250 . 6256	in. . 5830 . 5828 . 5844 . 5842	in. . 6053 . 6047 . 6079 . 6073	in. . 6236 . 6242 . 6250 . 6256	in. . 5782 . 5784 . 5808 . 5810	in. . 5782 . 5780 . 5808 . 5806	in. . 6236 . 6242 . 6250 . 6256	in. . 6236 . 6242 . 6250 . 6256
54-18 or . 625-18	UNF	1A 2A 3A	. 6139 . 6134 . 6139 . 6134 . 6153 . 6148	. 6236 . 6241 . 6236 . 6241 . 6250 . 6255	. 58750 . 58735 . 58750 . 58735 . 58890 . 58875	. 6046 . 6041 . 6069 . 6064 . 6095	. 6222 . 6227 . 6236 . 6241 . 6250 . 6255	. 58050 . 58065 . 58280 . 58295 . 58540 . 58555	. 58050 . 58035 . 58280 . 58265 . 58540 . 58525	. 6236 . 6241 . 6236 . 6241 . 6250 . 6255	. 6222 . 6227 . 6236 . 6241 . 6250 . 6255
5%-20 or . 625-20	UN	2A 3A	. 6147 . 6142 . 6160 . 6155	. 6237 . 6242 . 6250 . 6255	. 59120 . 59105 . 59250 . 59235	. 6086 . 6081 . 6110 . 6105	. 6237 . 6242 . 6250 . 6255	. 58690 . 58705 . 58930 . 58945	. 58690 . 58675 . 58930 . 58915	. 6237 . 6242 . 6250 . 6255	. 6237 . 6242 . 6250 . 6255
5%-24 or . 625-24	UNEF	2A 3A	. 6159 . 6154 . 6171 . 6166	. 6238 . 6243 . 6250 . 6255	. 59670 . 59655 . 59790 . 59775	. 6107 . 6102 . 6129 . 6124	. 6238 . 6243 . 6250 . 6255	. 59270 . 59285 . 59490 . 59505	. 59270 . 59255 . 59490 . 59475	. 6238 . 6243 . 6250 . 6255	. 6238 . 6243 . 6250 . 6255
5%-28 or . 625-28	UN	2A 3A	. 6168 . 6163 . 6179 . 6174	. 6239 . 6244 . 6250 . 6255	. 60070 . 60055 . 60180 . 60165	. 6124 . 6119 . 6145 . 6140	. 6237 . 6242 . 6250 . 6255	. 59690 . 59705 . 59900 . 59915	. 59690 . 59675 . 59900 . 59885	. 6239 . 6244 . 6250 . 6255	. 6237 . 6242 . 6250 . 6255
56-32 or . 625-32	UN	2A 3A	. 6174 . 6169 . 6185 . 6180	. 6239 . 6244 . 6250 . 6255	. 60360 . 60345 . 60470 . 60455	. 6135 . 6130 . 6155 . 6150	. 6234 . 6239 . 6250 . 6255	. 60000 . 60015 . 60200 . 60215	. 60000 . 59985 . 60200 . 60185	. 6239 . 6244 . 6250 . 6255	. 6234 . 6239 . 6250 . 6255
11/16-12 or . 6875-12	UN	2A 3A	. 6730 . 6724 . 6746 . 6740	. 6859 . 6865 . 6875 . 6881	. 6318 . 6316 . 6334 . 6332	. 6625 . 6619 . 6654 . 6648	. 6859 . 6865 . 6875 . 6881	. 6264 . 6266 . 6293 . 6295	. 6264 . 6262 . 6293 . 6291	. 6859 . 6865 . 6875 . 6881	. 6859 . 6865 . 6875 . 6881
11/16-16 or . 6875-16	UN	2A 3A	. 6756 . 6750 . 6770 . 6764	. 6861 . 6867 . 6875 . 6881	. 6455 . 6453 . 6469 . 6467	. 6678 . 6672 . 6704 . 6698	. 6861 . 6867 . 6875 . 6881	. 6407 . 6409 . 6433 . 6435	. 6407 . 6405 . 6433 . 6431	. 6861 . 6867 . 6875 . 6881	. 6861 . 6867 . 6875 . 6881
1½6-20 or . 6875-20	UN	2A 3A	. 6772 . 6767 . 6785 . 6780	. 6862 . 6867 . 6875 . 6880	. 65370 . 65355 . 65500 . 65485	. 6711 . 6706 . 6735 . 6730	. 6862 . 6867 . 6875 . 6880	. 64940 . 64955 . 65180 . 65195	. 64940 . 64925 . 65180 . 65165	. 6862 . 6867 . 6875 . 6880	. 6862 . 6867 . 6875 . 6880
11/16-24 or . 6875-24	UNEF	2A 3A	. 6784 . 6779 . 6796 . 6791	. 6863 . 6868 . 6875 . 6880	. 65920 . 65905 . 66040 . 66025	. 6732 . 6727 . 6754 . 6749	. 6863 . 6868 . 6875 . 6880	. 65520 . 65535 . 65740 . 65755	. 65520 . 65505 . 65740 . 65725	. 6863 . 6868 . 6875 . 6880	. 6863 . 6868 . 6875 . 6880
11/16-28 or . 6875-28	UN	2A 3A	. 6793 . 6788 . 6804 . 6799	. 6864 . 6869 . 6875 . 6880	. 66320 . 66305 . 66430 . 66415	. 6749 . 6744 . 6770 . 6765	. 6862 . 6867 . 6875 . 6880	. 65940 . 65955 . 66150 . 66165	. 65940 . 65925 . 66150 . 66135	. 6864 . 6869 . 6875 . 6880	. 6862 . 6865 . 6877 . 6880
11/16-32 or . 6875-32	UN	2A 3A	. 6799 . 6794 . 6810 . 6805	. 6864 . 6869 . 6875 . 6880	. 66610 . 66595 . 66720 . 66705	. 6760 . 6755 . 6780 . 6775	. 6859 . 6864 . 6875 . 6880	. 66250 . 66265 . 66450 . 66465	. 66250 . 66235 . 66450 . 66435	. 6864 . 6869 . 6875 . 6880	. 6859 . 6864 . 6875 . 6880
34–10 or . 750–10	UNC	1A 2A 3A	. 7336 . 7330 . 7336 . 7330 . 7354 . 7348	. 7482 . 7488 . 7482 . 7488 . 7500 . 7506	. 6832 . 6830 . 6832 . 6830 . 6850 . 6848	.7177 .7171 .7206 .7200 .7239 .7233	. 7482 . 7488 . 7482 . 7488 . 7500 . 7506	. 6744 . 6746 . 6773 . 6775 . 6806 . 6808	. 6744 . 6742 . 6773 . 6771 . 6806 . 6804	. 7482 . 7488 . 7482 . 7488 . 7500 . 7506	. 7482 . 7488 . 7482 . 7488 . 7500 . 7506
³ 4-12 or . 750-12	UN	2A 3A	. 7354 . 7348 . 7371 . 7365	. 7483 . 7489 . 7500 . 7506	. 6942 . 6940 . 6959 . 6957	. 7248 . 7242 . 7279 . 7273	. 7483 . 7489 . 7500 . 7506	. 6887 . 6889 . 6918 . 6920	. 6887 . 6885 . 6918 . 6916	. 7483 . 7489 . 7500 . 7506	. 7483 . 7489 . 7500 . 7506
³ 4-16 or . 750-16	UNF	1A 2A 3A	. 7380 . 7374 . 7380 . 7374 . 7395 . 7389	. 7485 . 7491 . 7485 . 7491 . 7500 . 7506	. 7079 . 7077 . 7079 . 7077 . 7094 . 7092	. 7275 . 7269 . 7300 . 7294 . 7327 . 7321	. 7473 . 7479 . 7485 . 7491 . 7500 . 7506	. 7004 . 7006 . 7029 . 7031 . 7056 . 7058	. 7004 . 7002 . 7029 . 7027 . 7056 . 7054	. 7485 . 7491 . 7485 . 7491 . 7500 . 7506	. 7473 . 7479 . 7485 . 7491 . 7500 . 7506

TABLE III.13.—Setting plug gages, Unified screw threads—Continued

					W tru	ncated setting	g plugs			Basic-crest	setting plugs
			Plug fo	r GO thread	gage •	Plug fo	r LO or NO	T GO thread	l gage •	Major o	liameter
Nominal size and threads per inch	Series des- ignation	Class	Major d	iameter	Pitch diameter	Major d	lameter	Pitch d	iameter	Plug for GO thread gage	Plug for LO or NOT GO thread gage
,			Truncated	Full		Truncated	Full	Plus toler- ance gage	Minus tolerance gage	W and X tolerances	W and X tolerances
1	2	3	4	5	6	7	8	9	10	11	12
3/4-20 or . 750-20	UNEF	2A 3A	in. . 7397 . 7392 . 7410 . 7405	in. .7487 .7492 .7500 .7505	in. . 71620 . 71605 . 71750 . 71735	in. . 7335 . 7330 . 7359 . 7354	in. . 7487 . 7492 . 7500 . 7505	in. . 71180 . 71195 . 71420 . 71435	in. . 71180 . 71165 . 71420 . 71405	in. . 7487 . 7492 . 7500 . 7505	in. . 7487 . 7492 . 7500 . 7505
34-28 or . 750-28	UN	2A 3A	. 7417 . 7412 . 7429 . 7424	. 7488 . 7493 . 7500 . 7505	. 72560 . 72545 . 72680 . 72665	. 7373 . 7368 . 7394 . 7389	. 7486 . 7491 . 7500 . 7505	. 72180 . 72195 . 72390 . 72405	. 72180 . 72165 . 72390 . 72375	. 7488 . 7493 . 7500 . 7505	. 7486 . 7491 . 7500 . 7505
34-32 or . 750-32	UN	2A 3A	. 7424 . 7419 . 7435 . 7430	. 7489 . 7494 . 7500 . 7505	. 72860 . 72845 . 72970 . 72955	. 7385 . 7380 . 7405 . 7400	. 7484 . 7489 . 7500 . 7505	. 72500 . 72515 . 72700 . 72715	. 72500 . 72485 . 72700 . 72685	. 7489 . 7494 . 7500 . 7505	. 7484 . 7489 . 7500 . 7505
¹³ / ₁₆ -12 or . 8125-12	UN	2A 3A	. 7979 . 7973 . 7996 . 7990	. 8108 . 8114 . 8125 . 8131	. 7567 . 7565 . 7584 . 7582	. 7873 . 7867 . 7904 . 7898	. 8108 . 8114 . 8125 . 8131	. 7512 . 7514 . 7543 . 7545	. 7512 . 7510 . 7543 . 7541	. 8108 . 8114 . 8125 . 8131	. 8108 . 8114 . 8125 . 8131
¹³ / ₁₆ -16 or . 8125-16	UN	2A 3A	. 8005 . 7999 . 8020 . 8014	.8110 .8116 .8125 .8131	. 7704 . 7702 . 7719 . 7717	. 7926 . 7920 . 7954 . 7948	. 8110 . 8116 . 8125 . 8131	. 7655 . 7657 . 7683 . 7685	. 7655 . 7653 . 7683 . 7681	. 8110 . 8116 . 8125 . 8131	. 8110 . 8116 . 8125 . 8131
13/16-20 or . 8125-20	UNEF	2A 3A	. 8022 . 8017 . 8035 . 8030	. 8112 . 8117 . 8125 . 8130	. 77870 . 77855 . 78000 . 77985	. 7960 . 7955 . 7984 . 7979	. 8112 . 8117 . 8125 . 8130	. 77430 . 77445 . 77670 . 77685	. 77430 . 77415 . 77670 . 77655	. 8112 . 8117 . 8125 . 8130	.8112 .8117 .8125 .8130
13/16-28 or . 8125-28	UN	2A 3A	. 8042 . 8037 . 8054 . 8049	. 8113 . 8118 . 8125 . 8130	. 78810 . 78795 . 78930 . 78915	. 7998 . 7993 . 8019 . 8014	. 8111 . 8116 . 8125 . 8130	. 78430 . 78445 . 78640 . 78655	. 78430 . 78415 . 78640 . 78625	. 8113 . 8118 . 8125 . 8130	. 8111 . 8116 . 8125 . 8130
¹ 3/16-32 or . 8125-32	UN	2A 3A	. 8049 . 8044 . 8060 . 8055	. 8114 . 8119 . 8125 . 8130	. 79110 . 79095 . 79220 . 79205	. 8010 . 8005 . 8030 . 8025	. 8109 . 8114 . 8125 . 8130	. 78750 . 78765 . 78950 . 78965	. 78750 . 78735 . 78950 . 78935	. 8114 . 8119 . 8125 . 8130	. 8109 . 8114 . 8125 . 8130
7∕8−9 or . 875−9	UNC	1A 2A 3A	. 8573 . 8566 . 8573 . 8566 . 8592 . 8585	. 8731 . 8738 . 8731 . 8738 . 8750 . 8757	. 8009 . 8007 . 8009 . 8007 . 8028 . 8026	. 8395 . 8388 . 8427 . 8420 . 8462 . 8455	. 8731 . 8738 . 8731 . 8738 . 8750 . 8757	. 7914 . 7916 . 7946 . 7948 . 7981 . 7983	. 7914 . 7912 . 7946 . 7944 . 7981 . 7979	. 8731 . 8738 . 8731 . 8738 . 8750 . 8757	. 8731 . 8738 . 8731 . 8738 . 8750 . 8757
76-12 or . 875-12	UN	2A 3A	. 8604 . 8598 . 8621 . 8615	. 8733 . 8739 . 8750 . 8756	. 8192 . 8190 . 8209 . 8207	. 8498 . 8492 . 8529 . 8523	. 8733 . 8739 . 8750 . 8756	. 8137 . 8139 . 8168 . 8170	.8137 .8135 .8168 .8166	. 8733 . 8739 . 8750 . 8756	. 8733 . 8739 . 8750 . 8756
76-14 or . 875-14	UNF	1A 2A 3A	. 8619 . 8613 . 8619 . 8613 . 8635 . 8629	. 8734 . 8740 . 8734 . 8740 . 8750 . 8756	. 8270 . 8268 . 8270 . 8268 . 8286 . 8284	. 8498 . 8492 . 8525 . 8519 . 8554 . 8548	. 8725 . 8731 . 8734 . 8740 . 8750 . 8756	. 8189 . 8191 . 8216 . 8218 . 8245 . 8247	. 8189 . 8187 . 8216 . 8214 . 8245 . 8243	. 8734 . 8740 . 8734 . 8740 . 8750 . 8756	. 8725 . 8731 . 8734 . 8740 . 8750 . 8756
76–16 or . 875–16	UN	2A 3A	. 8630 . 8624 . 8645 . 8639	. 8735 . 8741 . 8750 . 8756	. 8329 . 8327 . 8344 . 8342	. 8551 . 8545 . 8579 . 8573	. 8735 . 8741 . 8750 . 8756	. 8280 . 8282 . 8308 . 8310	. 8280 . 8278 . 8308 . 8306	. 8735 . 8741 . 8750 . 8756	. 8735 . 8741 . 8750 . 8756
76-20 or . 875-20	UNEF	2A 3A	. 8647 . 8642 . 8660 . 8655	. 8737 . 8742 . 8750 . 8755	. 84120 . 84105 . 84250 . 84235	. 8585 . 8580 . 8609 . 8604	. 8737 . 8742 . 8750 . 8755	. 83680 . 83695 . 83920 . 83935	. 83680 . 83665 . 83920 . 83905	. 8737 . 8742 . 8750 . 8755	. 8737 . 8742 . 8750 . 8755
76-28 or . 875-28	UN	2A 3A	. 8667 . 8662 . 8679 . 8674	. 8738 . 8743 . 8750 . 8755	. 85060 . 85045 . 85180 . 85165	. 8623 . 8618 . 8644 . 8639	. 8736 . 8741 . 8750 . 8755	. 84680 . 84695 . 84890 . 84905	. 84680 . 84665 . 84890 . 84875	. 8738 . 8743 . 8750 . 8755	.8736 .8741 .8750 .8755
7∕s−32 or . 875−32	UN	2A 3A	. 8674 . 8669 . 8685 . 8680	. 8739 . 8744 . 8750 . 8755	. 85360 . 85345 . 85470 . 85455	. 8635 . 8630 8655 . 8650	.8734 .8739 .8750 .8755	. 85000 . 85015 . 85200 . 85215	. 85000 . 84985 . 85200 . 85185	. 8739 . 8744 . 8750 . 8755	. 8734 . 8739 . 8750 . 8755

 ${\tt Table\ III.13.--Setting\ plug\ gages,\ Unified\ screw\ threads} -- {\tt Continued}$

					W trus	acated setting	plugs			Basic-crest	setting plugs
			Plug for	r GO thread	gage •	Plug for	LO or NO	Γ GO thread	gage •	Major o	liameter
Nominal size and threads per inch	Series des- ignation	Class	Major di	amete r	Pitch diameter	Major di	iameter	Pitch d	iameter	Plug for GO thread gage	Plug for LO or NOT GO thread gage
			Truncated	Full		Truncated	Full	Plus toler- ance gage	Minus tolerance gage	W and X tolerances	W and X tolerances
1	2	3	4	5	6	7	8	9	10	11	12
¹⁵ / ₁₆ -12 or . 9375-12	UN	2A 3A	in. . 9229 . 9223 . 9246 . 9240	in. . 9358 . 9364 . 9375 . 9381	in. . 8817 . 8815 . 8834 . 8832	in. . 9121 . 9115 . 9153 . 9147	in. . 9358 . 9364 . 9375 . 9381	in. . 8760 . 8762 . 8792 . 8794	in. . 8760 . 8758 . 8792 . 8790	in. . 9358 . 9364 . 9375 . 9381	in. . 9358 . 9364 . 9375 . 9381
¹⁵ / ₁₆ -16 or . 9375-16	UN	2A 3A	. 9255 . 9249 . 9270 . 9264	. 9360 . 9366 . 9375 . 9381	. 8954 . 8952 . 8969 . 8967	. 9175 . 9169 . 9203 . 9197	. 9360 . 9366 . 9375 . 9381	. 8904 . 8906 . 8932 . 8934	. 8904 . 8902 . 8932 . 8930	. 9360 . 9366 . 9375 . 9381	. 9360 . 9366 . 9375 . 9381
15/16-20 or . 9375-20	UNEF	2A 3A	. 9271 . 9266 . 9285 . 9280	. 9361 . 9366 . 9375 . 9380	. 90360 . 90345 . 90500 . 90485	. 9208 . 9203 . 9233 . 9228	. 9361 . 9366 . 9375 . 9380	. 89910 . 89925 . 90160 . 90175	. 89910 . 89895 . 90160 . 90145	. 9361 . 9366 . 9375 . 9380	. 9361 . 9366 . 9375 . 9380
15/16-28 or . 9375-28	UN	2A 3A	. 9292 . 9287 . 9304 . 9299	. 9363 . 9368 . 9375 . 9380	. 91310 . 91295 . 91430 . 91415	. 9246 . 9241 . 9268 . 9263	. 9359 . 9364 . 9375 . 9380	. 90910 . 90925 . 91130 . 91145	. 90910 . 90895 . 91130 . 91115	. 9363 . 9368 . 9375 . 9380	. 9359 . 9364 . 9375 . 9380
15/16-32 or . 9375-32	UN	2A 3A	. 9299 . 9294 . 9310 . 9305	. 9364 . 9369 . 9375 . 9380	. 91610 . 91595 . 91720 . 91705	. 9258 . 9253 . 9279 . 9274	. 9357 . 9362 . 9375 . 9380	. 91230 . 91245 . 91440 . 91455	. 91230 . 91215 . 91440 . 91425	. 9364 . 9369 . 9375 . 9380	. 9357 . 9362 . 9375 . 9380
1-8 or 1. 000-8	UNC	1A 2A 3A	. 9809 . 9802 . 9809 . 9802 . 9829 . 9822	. 9980 . 9987 . 9980 . 9987 1. 0000 1. 0007	. 9168 . 9166 . 9168 . 9166 . 9188 . 9186	. 9608 . 9601 . 9641 . 9634 . 9678	. 9980 . 9987 . 9980 . 9987 1. 0000 1. 0007	. 9067 . 9069 . 9100 . 9102 . 9137 . 9139	. 9067 . 9065 . 9100 . 9098 . 9137 . 9135	. 9980 . 9987 . 9980 . 9987 1. 0000 1. 0007	. 9980 . 9987 . 9980 . 9987 1. 0000 1. 0007
1-12 or 1. 000-12	UNF	1A 2A 3A	. 9853 . 9847 . 9853 . 9847 . 9871 . 9865	. 9982 . 9988 . 9982 . 9988 1. 0000 1. 0006	. 9441 . 9439 . 9441 . 9439 . 9459	. 9714 . 9708 . 9743 . 9737 . 9776 . 9770	. 9978 . 9984 . 9982 . 9988 1. 0000 1. 0006	. 9353 . 9355 . 9382 . 9384 . 9415	. 9353 . 9351 . 9382 . 9380 . 9415 . 9413	. 9982 . 9988 . 9982 . 9988 1. 0000 1. 0006	. 9978 . 9984 . 9982 . 9988 1. 0000 1. 0006
1-16 or 1.000-16	UN	2A 3A	. 9880 . 9874 . 9895 . 9889	. 9985 . 9991 1. 0000 1. 0006	. 9579 . 9577 . 9594 . 9592	. 9800 . 9794 . 9828 . 9822	. 9985 . 9991 1. 0000 1. 0006	. 9529 . 9531 . 9557 . 9559	. 9529 . 9527 . 9557 . 9555	. 9985 . 9991 1. 0000 1. 0006	. 9985 . 9991 1. 0000 1. 0006
1–20 or 1.000–20	UNEF	2A 3A	. 9896 . 9891 . 9910 . 9905	. 9986 . 9991 1. 0000 1. 0005	. 96610 . 96595 . 96750 . 96735	. 9833 . 9828 . 9858 . 9853	. 9986 . 9991 1. 0000 1. 0005	. 96160 . 96175 . 96410 . 96425	. 96160 . 96145 . 96410 . 96395	. 9986 . 9991 1. 0000 1. 0005	. 9986 . 9991 1. 0000 1. 0005
1–28 or 1. 000–28	UN	2A 3A	. 9917 . 9912 . 9929 . 9924	. 9988 . 9993 1. 0000 1. 0005	. 97560 . 97545 . 97680 . 97665	. 9871 . 9866 . 9893 . 9888	. 9984 . 9989 1. 0000 1. 0005	. 97160 . 97175 . 97380 . 97395	. 97160 . 97145 . 97380 . 97365	. 9988 . 9993 1. 0000 1. 0005	. 9984 . 9989 1. 0000 1. 0005
1–32 or 1. 000–32	UN	2A 3A	. 9924 . 9919 . 9935 . 9930	. 9989 . 9994 1. 0000 1. 0005	. 97860 . 97845 . 97970 . 97955	. 9883 . 9878 . 9904 . 9899	. 9982 . 9987 1. 0000 1. 0005	. 97480 . 97495 . 97690 . 97705	. 97480 . 97465 . 97690 . 97675	. 9989 . 9994 1. 0000 1. 0005	. 9982 . 9987 1. 0000 1. 0005
1½6-8 or 1.0625-8	UN	2A 3A	1. 0434 1. 0427 1. 0454 1. 0447	1. 0605 1. 0612 1. 0625 1. 0632	. 9793 . 9791 . 9813 . 9811	1. 0266 1. 0259 1. 0303 1. 0296	1. 0605 1. 0612 1. 0625 1. 0632	. 9725 . 9727 . 9762 . 9764	. 9725 . 9723 . 9762 . 9760	1.0605 1.0612 1.0625 1.0632	1. 0605 1. 0612 1. 0625 1. 0632
1½6-12 or 1.0625-12	UN	2A 3A	1. 0479 1. 0473 1. 0496 1. 0490	1. 0608 1. 0614 1. 0625 1. 0631	1. 0067 1. 0065 1. 0084 1. 0082	1. 0371 1. 0365 1. 0403 1. 0397	1. 0608 1. 0614 1. 0625 1. 0631	1.0010 1.0012 1.0042 1.0044	1. 0010 1. 0008 1. 0042 1. 0040	1. 0608 1. 0614 1. 0625 1. 0631	1. 0608 1. 0614 1. 0625 1. 0631
1½6-16 or 1.0625-16	UN	2A 3A	1. 0505 1. 0499 1. 0520 1. 0514	1.0610 1.0616 1.0625 1.0631	1. 0204 1. 0202 1. 0219 1. 0217	1. 0425 1. 0419 1. 0453 1. 0447	1. 0610 1. 0616 1. 0625 1. 0631	1. 0154 1. 0156 1. 0182 1. 0184	1. 0154 1. 0152 1. 0182 1. 0180	1. 0610 1. 0616 1. 0625 1. 0631	1, 0610 1, 0616 1, 0625 1, 0631
1½6-18 or 1. 0625-18	UNEF	2A 3A	1. 0514 1. 0509 1. 0528 1. 0523	1. 0611 1. 0616 1. 0625 1. 0630	1. 02500 1. 02485 1. 02640 1. 02625	1. 0444 1. 0439 1. 0469 1. 0464	1. 0611 1. 0616 1. 0625 1. 0630	1. 02030 1. 02045 1. 02280 1. 02295	1. 02030 1. 02015 1. 02280 1. 02265	1. 0611 1. 0616 1. 0625 1. 0630	1. 0611 1. 0616 1. 0625 1. 0630

Table III.13.—Setting plug gages, Unified screw threads—Continued

Pitch Part												
Nominal size and threads per inch Series description Class Major diameter Pitch d	(W tru	ncated setting	g plugs			Basic-crest	setting plugs
Nominal size and Series destroys Class Major dismeter Truncated Full Truncate				Plug fo	r GO thread	l gage •	Plug fo	r LO or NO	T GO thread	l gage •	Major	liameter
Truncated Full Truncated Full ance gase tolerance to			Class	Major d	iameter		Major d	liameter	Pitch d	iameter	Plug for GO thread	Plug for LO or NOT GO thread
146-30 or UN				Truncated	Full		Truncated	Full		tolerance		W and X tolerances
1 164-20 or UN	1	2	3	4	5	6	7	8	9	10	11	12
146-28 or 1.062-28 1.063		UN		1. 0521 1. 0516 1. 0535	1. 0611 1. 0616 1. 0625	1. 02860 1. 02845 1. 03000	1, 0458 1, 0453 1, 0483	1,0611 1,0616 1,0625	1. 02410 1. 02425 1. 02660	1. 02410 1. 02395 1. 02660	1. 0611 1. 0616 1. 0625	in. 1.0611 1.0616 1.0625 1.0630
134-7 or		UN		1. 0537 1. 0554	1.0618 1.0625	1. 03795 1. 03930	1. 0491 1. 0518	1.0614 1.0625	1.03425 1.03630	1. 03395 1. 03630	1. 0618 1. 0625	1. 0609 1. 0614 1. 0625 1. 0630
14-8 or UN 3A 1.1651 1.236 1.0415 1.0882 1.1236 1.0350 1.0365 1.1236 1.125 1		UNC	2A	1. 1033 1. 1040 1. 1033 1. 1062	1. 1235 1. 1228 1. 1235 1. 1250	1. 0298 1. 0300 1. 0298 1. 0322	1. 0803 1. 0847 1. 0846 1. 0887	1. 1235 1. 1228 1. 1235 1. 1250	1. 0193 1. 0228 1. 0230 1. 0268	1. 0189 1. 0228 1. 0226 1. 0268	1. 1235 1. 1228 1. 1235 1. 1250	1, 1228 1, 1235 1, 1228 1, 1235 1, 1250 1, 1257
1.125-12		UN		1. 1051 1. 1079	1. 1236 1. 1250	1. 0415 1. 0438	1.0882 1.0927	1, 1236 1, 1250	1. 0350 1. 0386	1. 0346 1. 0386	1. 1236 1. 1250	1, 1229 1, 1236 1, 1250 1, 1257
1,125-16		UNF	2A	1. 1097 1. 1103 1. 1097 1. 1121	1. 1232 1. 1238 1. 1250	1. 0689 1. 0691 1. 0689 1. 0709	1. 0956 1. 0992 1. 0986 1. 1025	1. 1232 1. 1238 1. 1250	1. 0603 1. 0631 1. 0633 1. 0664	1. 0599 1. 0631 1. 0629 1. 0664	1. 1238 1. 1232 1. 1238 1. 1250	1. 1226 1. 1232 1. 1232 1. 1238 1. 1250 1. 1256
1.125-18		UN		1. 1124 1. 1145	1. 1250	1. 0827 1. 0844	1. 1044 1. 1078	1.1250	1. 0781 1. 0807	1.0807	1. 1241 1. 1250	1. 1235 1. 1241 1. 1250 1. 1256
114-20 or 1.12-20 1.12-20 1.1141 1.1241 1.09095 1.1078 1.1241 1.08675 1.0845 1.1241 1.125 1.		UNEF		1. 1134 1. 1153	1. 1250	1. 08735 1. 08890	1. 1064 1. 1094	1.1250	1. 08295 1. 08530	1. 08265 1. 08530	1. 1241 1. 1250	1. 1236 1. 1241 1. 1250 1. 1255
114-28 or UN 1.1162 1.1243 1.10045 1.1116 1.1239 1.09675 1.09645 1.1243 1.125 1.125-28 1.125-28 1.1250 1.10180 1.1143 1.1250 1.09830 1.09850 1.09850 1.1250 1.125 1.10165 1.1138 1.1255 1.09895 1.09895 1.09895 1.09895 1.1255 1.125 1		UN		1. 1141 1. 1160	1. 1241 1. 1250	1. 09095 1. 09250	1. 1078 1. 1108	1. 1241 1. 1250	1.08675 1.08910	1. 08645 1. 08910	1. 1241 1. 1250	1, 1236 1, 1241 1, 1250 1, 1255
1346-8 or UN 1.1676 1.1861 1.1040 1.1506 1.1861 1.0974 1.0970 1.1861 1.1861 1.1875 1.1880 1.		UN		1. 1162 1. 1179	1. 1243 1. 1250	1. 10045 1. 10180	1, 1116 1, 1143	1. 1239 1. 1250	1. 09675 1. 09880	1. 09645 1. 09880	1. 1243 1. 1250	1. 1234 1. 1239 1. 1250 1. 1255
1. 1875-12 3A 1. 1746 1. 1875 1. 1834 1. 1652 1. 1875 1. 1291 1. 1291 1. 1875 1. 1881 1. 1293 1. 1293 1. 1293 1. 1293 1. 1293 1. 1293 1. 1881	1 1075 0	UN		1. 1676 1. 1704	1. 1861 1. 1875	1, 1040 1, 1063	1. 1506 1. 1552	1. 1861 1. 1875	1. 0974 1. 1011	1. 0970 1. 1011	1. 1861 1. 1875	1. 1854 1. 1861 1. 1875 1. 1882
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		UN	ł	1. 1746	1. 1864 1. 1875	1. 1315 1. 1334	1. 1614 1. 1652	1. 1864 1. 1875	1. 1261 1. 1291	1. 1257 1. 1291	1. 1864 1. 1875	1, 1858 1, 1864 1, 1875 1, 1881
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	13/16-16 or 1.1875-16	UN		1. 1749 1. 1770	1. 1866 1. 1875	1. 1452 1. 1469	1. 1668 1. 1702	1. 1866 1. 1875	1. 1405 1. 1431	1. 1401 1. 1431	1. 1866 1. 1875	1. 1860 1. 1866 1. 1875 1. 1881
13/16-20 or 1.1875-20 UN 3A 1.1766 1.1866 1.15345 1.1701 1.1866 1.14905 1.14875 1.1866 1.1875-20 1.1785 1.1875 1.1850 1.1732 1.1875 1.1875 1.15150 1.15150 1.15150 1.1875 1.1875 1.1875 1.1870 1.1880 1.15165 1.15165 1.15135 1.1880 1.18		UNEF		1. 1758 1. 1778	1. 1865 1. 1875	1. 14975 1. 15140	1. 1686 1. 1719	1. 1865 1. 1875	1. 14515 1. 14780	1. 14485 1. 14780	1. 1865 1. 1875	1. 1860 1. 1865 1. 1875 1. 1880
94 1 1700 1 1909 1 1900 1 1900 1 1700 1 1700 1 1700		UN		1. 1766 1. 1785	1. 1866 1. 1875	1. 15345 1. 15500	1. 1701 1. 1732	1. 1866 1. 1875	1. 14905 1. 15150	1. 14875 1. 15150	1, 1866 1, 1875	1. 1861 1. 1866 1. 1875 1. 1880
13/16-28 or UN		UN	2A 3A	1. 1804	1.1875	1.16430	1.1767	1. 1875	1.16120	1.16120	1. 1875	1, 1858 1, 1863 1, 1875 1, 1880

Table III.13.—Setting plug gages, Unified screw threads—Continued

					W tru	ncated setting	plugs			Basic-crest	setting plugs
			Plug for	GO thread	gage •	Plug for	LO or NO	T GO thread	l gage •	Major o	liameter
Nominal size and threads per inch	Series des- ignation	Class	Major di	ameter	Pitch diameter	Major d	iameter	Pitch d	liameter	Plug for GO thread gage	Plug for LC or NOT GC thread gage
			Truncated	Full		Truncated	Full	Plus toler- ance gage	Minus tolerance gage	W and X tolerances	W and X tolerances
1	2	3	4	5	6	7	8	9	10	11	12
134-7 or 1.250-7	UNC	1A 2A 3A	in. 1. 2290 1. 2283 1. 2290 1. 2283 1. 2312 1. 2305	in. 1. 2478 1. 2485 1. 2478 1. 2485 1. 2485 1. 2500 1. 2507	in. 1. 1550 1. 1548 1. 1550 1. 1548 1. 1572 1. 1570	in. 1, 2058 1, 2051 1, 2095 1, 2088 1, 2136 1, 2129	in. 1. 2478 1. 2485 1. 2478 1. 2485 1. 2485 1. 2500 1. 2507	in. 1. 1439 1. 1441 1. 1476 1. 1478 1. 1517 1. 1519	in. 1. 1439 1. 1437 1. 1476 1. 1474 1. 1517 1. 1515	in. 1. 2478 1. 2485 1. 2478 1. 2485 1. 2500 1. 2507	in. 1. 2478 1. 2488 1. 2478 1. 2488 1. 2500 1. 2500
1½-8 or 1.250-8	UN	2A 3A	1. 2308 1. 2301 1. 2329 1. 2322	1. 2479 1. 2486 1. 2500 1. 2507	1. 1667 1. 1665 1. 1688 1. 1686	1. 2138 1. 2131 1. 2176 1. 2169	1. 2479 1. 2486 1. 2500 1. 2507	1. 1597 1. 1599 1. 1635 1. 1637	1. 1597 1. 1595 1. 1635 1. 1633	1. 2479 1. 2486 1. 2500 1. 2507	1. 2479 1. 2480 1. 2500 1. 2500
1¼-12 or 1,250-12	UNF	1A 2A 3A	1. 2353 1. 2347 1. 2353 1. 2347 1. 2371 1. 2365	1. 2482 1. 2488 1. 2482 1. 2488 1. 2500 1. 2506	1. 1941 1. 1939 1. 1941 1. 1939 1. 1959 1. 1957	1. 2210 1. 2204 1. 2240 1. 2234 1. 2274 1. 2268	1. 2474 1. 2480 1. 2482 1. 2488 1. 2500 1. 2506	1. 1849 1. 1851 1. 1879 1. 1881 1. 1913 1. 1915	1. 1849 1. 1847 1. 1879 1. 1877 1. 1913 1. 1911	1. 2482 1. 2488 1. 2482 1. 2488 1. 2500 1. 2506	1. 247- 1. 248- 1. 248- 1. 248- 1. 250- 1. 250-
1¼-16 or 1.250-16	UN	2A 3A	1. 2380 1. 2374 1. 2395 1. 2389	1. 2485 1. 2491 1. 2500 1. 2506	1. 2079 1. 2077 1. 2094 1. 2092	1. 2299 1. 2293 1. 2327 1. 2321	1. 2485 1. 2491 1. 2500 1. 2506	1. 2028 1. 2030 1. 2056 1. 2058	1. 2028 1. 2026 1. 2056 1. 2054	1. 2485 1. 2491 1. 2500 1. 2506	1. 248 1. 249 1. 250 1. 250
1¼-18 or 1.250-18	UNEF	2A 3A	1. 2388 1. 2383 1. 2403 1. 2398	1. 2485 1. 2490 1. 2500 1. 2505	1. 21240 1. 21225 1. 21390 1. 21375	1. 2316 1. 2311 1. 2344 1. 2339	1. 2485 1. 2490 1. 2500 1. 2505	1. 20750 1. 20765 1. 21030 1. 21045	1. 20750 1. 20735 1. 21030 1. 21015	1. 2485 1. 2490 1. 2500 1. 2505	1. 248 1. 249 1. 250 1. 250
1¼-20 or 1.250-20	UN	2A 3A	1. 2396 1. 2391 1. 2410 1. 2405	1. 2486 1. 2491 1. 2500 1. 2505	1. 21610 1. 21595 1. 21750 1. 21735	1. 2331 1. 2326 1. 2357 1. 2352	1. 2486 1. 2491 1. 2500 1. 2505	1. 21140 1. 21155 1. 21400 1. 21415	1. 21140 1. 21125 1. 21400 1. 21385	1. 2486 1. 2491 1. 2500 1. 2505	1. 248 1. 249 1. 250 1. 250
1¼-28 or 1.250-28	UN	2A 3A	1. 2417 1. 2412 1. 2429 1. 2424	1. 2488 1. 2493 1. 2500 1. 2505	1. 22560 1. 22545 1. 22680 1. 22665	1. 2370 1. 2365 1. 2392 1. 2387	1. 2483 1. 2488 1. 2500 1. 2505	1. 22150 1. 22165 1. 22370 1. 22385	1. 22150 1. 22135 1. 22370 1. 22355	1. 2488 1. 2493 1. 2500 1. 2505	1. 248 1. 248 1. 250 1. 250
15/16-8 or 1.3125-8	UN	2A 3A	1. 2933 1. 2926 1. 2954 1. 2947	1. 3104 1. 3111 1. 3125 1. 3132	1. 2292 1. 2290 1. 2313 1. 2311	1. 2762 1. 2755 1. 2801 1. 2794	1. 3104 1. 3111 1. 3125 1. 3132	1. 2221 1. 2223 1. 2260 1. 2262	1, 2221 1, 2219 1, 2260 1, 2258	1.3104 1.3111 1.3125 1.3132	1. 310 1. 311 1. 312 1. 313
15/16-12 or 1.3125-12	UN	2A 3A	1. 2979 1. 2973 1. 2996 1. 2990	1. 3108 1. 3114 1. 3125 1. 3131	1. 2567 1. 2565 1. 2584 1. 2582	1. 2870 1. 2864 1. 2902 1. 2896	1. 3108 1. 3114 1. 3125 1. 3131	1. 2509 1. 2511 1. 2541 1. 2543	1. 2509 1. 2507 1. 2541 1. 2539	1. 3108 1. 3114 1. 3125 1. 3131	1. 310 1. 311 1. 312 1 313
15/16-16 or 1.3125-16	UN	2A 3A	1. 3005 1. 2999 1. 3020 1. 3014	1. 3110 1. 3116 1. 3125 1. 3131	1. 2704 1. 2702 1. 2719 1. 2717	1. 2924 1. 2918 1. 2952 1. 2946	1. 3110 1. 3116 1. 3125 1. 3131	1. 2653 1. 2655 1. 2681 1. 2683	1. 2653 1. 2651 1. 2681 1. 2679	1. 3110 1. 3116 1. 3125 1. 3131	1. 311 1. 311 1. 312 1. 313
15/16-18 or 1. 3125-18	UNEF	2A 3A	1. 3013 1. 3008 1. 3028 1. 3023	1. 3110 1. 3115 1. 3125 1. 3130	1. 27490 1. 27475 1. 27640 1. 27625	1. 2941 1. 2936 1. 2969 1. 2964	1. 3110 1. 3115 1. 3125 1. 3130	1. 27000 1. 27015 1. 27280 1. 27295	1. 27000 1. 26985 1. 27280 1. 27265	1. 3110 1. 3115 1. 3125 1. 3130	1, 311 1, 311 1, 312 1, 313
15/18-20 or 1. 3125-20	UN	2A 3A	1. 3021 1. 3016 1. 3035 1. 3030	1, 3111 1, 3116 1, 3125 1, 3130	1. 27860 1. 27845 1. 28000 1. 27985	1. 2956 1. 2951 1. 2982 1. 2977	1. 3111 1. 3116 1. 3125 1. 3130	1. 27390 1. 27405 1. 27650 1. 27665	1. 27390 1. 27375 1. 27650 1. 27635	1. 3111 1. 3116 1. 3125 1. 3130	1. 311 1. 311 1. 312 1. 313
15/16-28 or 1. 3125-28	UN	2A 3A	1. 3042 1. 3037 1. 3054 1. 3049	1. 3113 1. 3118 1. 3125 1. 3130	1. 28810 1. 28795 1. 28930 1. 28915	1. 2995 1. 2990 1. 3017 1. 3012	1. 3108 1. 3113 1. 3125 1. 3130	1. 28400 1. 28415 1. 28620 1. 28635	1. 28400 1. 28385 1. 28620 1. 28605	1. 3113 1. 3118 1. 3125 1. 3130	1. 310 1. 311 1. 312 1. 313
1¾-6 or 1.375-6	UNC	1A 2A 3A	1. 3516 1. 3508 1. 3516 1. 3508 1. 3540 1. 3532	1. 3726 1. 3734 1. 3726 1. 3734 1. 3750 1. 3758	1. 2643 1. 2641 1. 2643 1. 2641 1. 2667 1. 2665	1. 3245 1. 3237 1. 3285 1. 3277 1. 3329 1. 3321	1. 3726 1. 3734 1. 3726 1. 3734 1. 3750 1. 3758	1. 2523 1. 2525 1. 2563 1. 2565 1. 2607 1. 2609	1. 2523 1. 2521 1. 2563 1. 2561 1. 2607 1. 2605	1. 3726 1. 3734 1. 3726 1. 3734 1. 3750 1. 3758	1. 372 1. 373 1. 372 1. 373 1. 375 1. 375
1¾-8 or 1.375-8	UN	2A 3A	1. 3557 1. 3550 1. 3579 1. 3572	1. 3728 1. 3735 1. 3750 1. 3757	1. 2916 1. 2914 1. 2938 1. 2936	1. 3385 1. 3378 1. 3425 1. 3418	1. 3728 1. 3735 1. 3750 1. 3757	1. 2844 1. 2846 1. 2884 1. 2886	1. 2844 1. 2842 1. 2884 1. 2882	1. 3728 1. 3735 1. 3750 1. 3757	1. 3728 1. 3738 1. 3750 1. 375

Table III.13.—Setting plug gages, Unified screw threads—Continued

					W tru	ncated setting	plugs			Basic-crest	setting plugs
			Plug fo	or GO thread	gage a	Plug for	LO or NO	T GO thread	gage •	Major	liameter
Nominal size and threads per inch	Series des- ignation	Class	Major d	iameter	Pitch diameter	Major di	iameter	Pitch d	lameter	Plug for GO thread gage	Plug for LO or NOT GO thread gage
			Truncated	Full		Truncated	Full	Plus toler- ance gage	Minus tolerance gage	W and X tolerances	W and X tolerances
1	2	3	4	5	6	7	8	9	10	11	12
1¾-12 or 1. 375-12	UNF	1A 2A 3A	in. 1. 3602 1. 3596 1. 3602 1. 3596 1. 3621 1. 3615	in. 1. 3731 1. 3737 1. 3731 1. 3737 1. 3750 1. 3756	in. 1. 3190 1. 3188 1. 3190 1. 3188 1. 3209 1. 3207	in. 1. 3457 1. 3451 1. 3488 1. 3482 1. 3523 1. 3517	in. 1. 3721 1. 3727 1. 3731 1. 3737 1. 3750 1. 3756	in. 1. 3096 1. 3098 1. 3127 1. 3129 1. 3162 1. 3164	in. 1, 3096 1, 3094 1, 3127 1, 3125 1, 3162 1, 3160	in. 1. 3731 1. 3737 1. 3731 1. 3737 1. 3750 1. 3756	in. 1. 3721 1. 3727 1. 3731 1. 3737 1. 3750 1. 3756
13%-16 or 1. 375-16	UN	2A 3A	1. 3630 1. 3624 1. 3645 1. 3639	1, 3735 1, 3741 1, 3750 1, 3756	1. 3329 1. 3327 1. 3344 1. 3342	1, 3549 1, 3543 1, 3577 1, 3571	1. 3735 1. 3741 1. 3750 1. 3756	1. 3278 1. 3280 1. 3306 1. 3308	1. 3278 1. 3276 1. 3306 1. 3304	1. 3735 1. 3741 1. 3750 1. 3756	1. 3735 1. 3741 1. 3750 1. 3756
136–18 or 1. 375–18	UNEF	2A 3A	1. 3638 1. 3633 1. 3653 1. 3648	1. 3735 1. 3740 1. 3750 1. 3755	1. 33740 1. 33725 1. 33890 1. 33875	1. 3566 1. 3561 1. 3594 1. 3589	1. 3735 1. 3740 1. 3750 1. 3755	1. 33250 1. 33265 1. 33530 1. 33545	1. 33250 1. 33235 1. 33530 1. 33515	1. 3735 1. 3740 1. 3750 1. 3755	1, 3735 1, 3740 1, 3750 1, 3755
136-20 or 1. 375-20	UN	2A 3A	1. 3646 1. 3641 1. 3660 1. 3655	1. 3736 1. 3741 1. 3750 1. 3755	1. 34110 1. 34095 1. 34250 1. 34235	1. 3581 1. 3576 1. 3607 1. 3602	1. 3736 1. 3741 1. 3750 1. 3755	1. 33640 1. 33655 1. 33900 1. 33915	1. 33640 1. 33625 1. 33900 1. 33885	1. 3736 1. 3741 1. 3750 1. 3755	1, 3736 1, 3741 1, 3750 1, 3755
134-28 or 1. 375-28	UN	2A 3A	1. 3667 1. 3662 1. 3679 1. 3674	1. 3738 1. 3743 1. 3750 1. 3755	1, 35060 1, 35045 1, 35180 1, 35165	1. 3620 1. 3615 1. 3642 1. 3637	1. 3733 1. 3738 1. 3750 1. 3755	1. 34650 1. 34665 1. 34870 1. 34885	1. 34650 1. 34635 1. 34870 1. 34855	1. 3738 1. 3743 1. 3750 1. 3755	1. 3733 1. 3738 1. 3750 1. 3755
17/16-6 or 1.4375-6	UN	2A 3A	1. 4141 1. 4133 1. 4165 1. 4157	1. 4351 1. 4359 1. 4375 1. 4383	1. 3268 1. 3266 1. 3292 1. 3290	1. 3910 1. 3902 1. 3954 1. 3946	1. 4351 1. 4359 1. 4375 1. 4383	1 3188 1.3190 1.3232 1.3234	1, 3188 1, 3186 1, 3232 1, 3230	1. 4351 1. 4359 1. 4375 1. 4383	1. 4351 1. 4359 1. 4375 1. 4383
17/16-8 or 1. 4375-8	UN	2A 3A	1. 4182 1. 4175 1. 4204 1. 4197	1. 4353 1. 4360 1. 4375 1. 4382	1. 3541 1. 3539 1. 3563 1. 3561	1. 4010 1. 4003 1. 4050 1. 4043	1. 4353 1. 4360 1. 4375 1. 4382	1. 3469 1. 3471 1. 3509 1. 3511	1. 3469 1. 3467 1. 3509 1. 3507	1. 4353 1. 4360 1. 4375 1. 4382	1. 4353 1. 4360 1. 4375 1. 4382
17/6-12 or 1. 4375-12	UN	2A 3A	1. 4228 1. 4222 1. 4246 1. 4240	1. 4357 1. 4363 1. 4375 1. 4381	1. 3816 1. 3814 1. 3834 1. 3832	1. 4118 1. 4112 1. 4151 1. 4145	1. 4357 1. 4363 1. 4375 1. 4381	1. 3757 1. 3759 1. 3790 1. 3792	1. 3757 1. 3755 1. 3790 1. 3788	1. 4357 1. 4363 1. 4375 1. 4381	1. 4357 1. 4363 1. 4375 1. 4381
17/6-16 or 1, 4375-16	UN	2A 3A	1. 4254 1. 4248 1. 4270 1. 4264	1. 4359 1. 4365 1. 4375 1. 4381	1. 3953 1. 3951 1. 3969 1. 3967	1. 4172 1. 4166 1. 4201 1. 4195	1. 4359 1. 4365 1. 4375 1. 4381	1.3901 1.3903 1.3930 1.3932	1. 3901 1. 3899 1. 3930 1. 3928	1, 4359 1, 4365 1, 4375 1, 4381	1. 4359 1. 4365 1. 4375 1. 4381
17/ ₆ -18 or 1. 4375-18	UNEF	2A 3A	1. 4263 1. 4258 1. 4278 1. 4273	1. 4360 1. 4365 1. 4375 1. 4380	1. 39990 1. 39975 1. 40140 1. 40125	1. 4190 1. 4185 1. 4218 1. 4213	1. 4360 1. 4365 1. 4375 1. 4380	1. 39490 1. 39505 1. 39770 1. 39785	1. 39490 1. 39475 1. 39770 1. 39755	1. 4360 1. 4365 1. 4375 1. 4380	1. 4360 1. 4365 1. 4375 1. 4380
17/ ₆ -20 or 1. 4375-20	UN	2A 3A	1. 4271 1. 4266 1. 4285 1. 4280	1. 4361 1. 4366 1. 4375 1. 4380	1. 40360 1. 40345 1. 40500 1. 40485	1. 4205 1. 4200 1. 4231 1. 4226	1. 4361 1. 4366 1. 4375 1. 4380	1. 39880 1. 39895 1. 40140 1. 40155	1. 39880 1. 39865 1. 40140 1. 40125	1, 4361 1, 4366 1, 4375 1, 4380	1. 4361 1. 4366 1. 4375 1. 4380
17/6-28 or 1. 4375-28	UN	2A 3A	1, 4291 1, 4286 1, 4304 1, 4299	1. 4362 1. 4367 1. 4375 1. 4380	1. 41300 1. 41285 1. 41430 1. 41415	1. 4243 1. 4238 1. 4267 1. 4262	1. 4356 1. 4361 1. 4375 1. 4380	1. 40880 1. 40895 1. 41120 1. 41135	1. 40880 1. 40865 1. 41120 1. 41105	1. 4362 1. 4367 1. 4375 1. 4380	1. 4356 1. 4361 1. 4375 1. 4380
1½-6 or 1.500-6	UNC	1A 2A 3A	1. 4766 1. 4758 1. 4766 1. 4758 1. 4790 1. 4782	1. 4976 1. 4984 1. 4976 1. 4984 1. 5000 1. 5008	1, 3893 1, 3891 1, 3893 1, 3891 1, 3917 1, 3915	1. 4494 1. 4486 1. 4534 1. 4526 1. 4578 1. 4570	1. 4976 1. 4984 1. 4976 1. 4984 1. 5000 1. 5008	1. 3772 1. 3774 1. 3812 1. 3814 1. 3856 1. 3858	1, 3772 1, 3770 1, 3812 1, 3810 1, 3856 1, 3854	1. 4976 1. 4984 1. 4976 1. 4984 1. 5000 1. 5008	1. 4976 1. 4984 1. 4976 1. 4984 1. 5000 1. 5008
1½-8 or 1. 500-8	UN	2A 3A	1. 4807 1. 4800 1. 4829 1. 4822	1. 4978 1. 4985 1. 5000 1. 5007	1. 4166 1. 4164 1. 4188 1. 4186	1. 4634 1. 4627 1. 4674 1. 4667	1. 4978 1. 4985 1. 5000 1. 5007	1. 4093 1. 4095 1. 4133 1. 4135	1. 4093 1. 4091 1. 4133 1. 4131	1. 4978 1. 4985 1. 5000 1. 5007	1, 4978 1, 4985 1, 5000 1, 5007
1½-12 or 1. 500-12	UNF	1A 2A 3A	1. 4852 1. 4846 1. 4852 1. 4846 1. 4871 1. 4865	1. 4981 1. 4987 1. 4981 1. 4987 1. 5000 1. 5006	1. 4440 1. 4438 1. 4440 1. 4438 1. 4459 1. 4457	1. 4705 1. 4699 1. 4737 1. 4731 1. 4772 1. 4766	1. 4969 1. 4975 1. 4981 1. 4987 1. 5000 1. 5006	1. 4344 1. 4346 1. 4376 1. 4378 1. 4411 1. 4413	1. 4344 1. 4342 1. 4376 1. 4374 1. 4411 1. 4409	1. 4981 1. 4987 1. 4981 1. 4987 1. 5000 1. 5006	1. 4969 1. 4975 1. 4981 1. 4987 1. 5000 1. 5006

TABLE III.13.—Setting plug gages, Unified screw threads—Continued

					W tru	ncated setting	plugs			Basic-crest	setting plugs
			Plug for	GO thread	gage •	Plug for	r LO or NO	T GO thread	gage 4	Major d	liameter
Nominal size and threads per inch	Series des- ignation	Class	Major di	ameter	Pitch diameter	Major d	iameter	Pitch di	ameter	Plug for GO thread gage	Plug for LO or NOT GO thread gage
			Truncated	Full		Truncated	Full	Plus toler- ance gage	Minus tolerance gage	W and X tolerances	W and X tolerances
1	2	3	4	5	6	7	8	9	10	11	12
1½-16 or 1. 500-16	UN	2A 3A	in. 1. 4879 1. 4873 1. 4895 1. 4889	in. 1. 4984 1. 4990 1. 5000 1. 5006	in. 1. 4578 1. 4576 1. 4594 1. 4592	in. 1. 4797 1. 4791 1. 4826 1. 4820	in. 1. 4984 1. 4990 1. 5000 1. 5006	in. 1. 4526 1. 4528 1. 4555 1. 4557	in. 1. 4526 1. 4524 1. 4555 1. 4553	in. 1. 4984 1. 4990 1. 5000 1. 5006	in. 1. 4984 1. 4990 1. 5000
1½-18 or 1. 500-18	UNEF	2A 3A	1. 4888 1. 4883 1. 4903 1. 4898	1. 4985 1. 4990 1. 5000 1. 5005	1. 46240 1. 46225 1. 46390 1. 46375	1. 4815 1. 4810 1. 4843 1. 4838	1. 4984 1. 4990 1. 5000 1. 5005	1. 45740 1. 45755 1. 46020 1. 46035	1. 45740 1. 45725 1. 46020 1. 46005	1. 4985 1. 4990 1. 5000 1. 5005	1. 4985 1. 4990 1. 5000 1. 5000
1½-20 or 1. 500-20	UN	2A 3A	1. 4896 1. 4891 1. 4910 1. 4905	1. 4986 1. 4991 1. 5000 1. 5005	1. 46610 1. 46595 1. 46750 1. 46735	1. 4830 1. 4825 1. 4856 1. 4851	1. 4986 1. 4991 1. 5000 1. 5005	1. 46130 1. 46145 1. 46390 1. 46405	1. 46130 1. 46115 1. 46390 1. 46375	1. 4986 1. 4991 1. 5000 1. 5005	1. 4986 1. 4991 1. 5000 1. 5000
1½-28 or 1. 500-28	UN	2A 3A	1. 4916 1. 4911 1. 4929 1. 4924	1. 4987 1. 4992 1. 5000 1. 5005	1. 47550 1. 47535 1. 47680 1. 47665	1. 4868 1. 4863 1. 4892 1. 4887	1. 4981 1. 4986 1. 5000 1. 5005	1. 47130 1. 47145 1. 47370 1. 47385	1. 47130 1. 47115 1. 47370 1. 47355	1. 4987 1. 4992 1. 5000 1. 5005	1. 4981 1. 4986 1. 5000 1. 5000
1% 6-6 ог 1. 5625-6	UN	2A 3A	1. 5391 1. 5383 1. 5415 1. 5407	1. 5601 1. 5609 1. 5625 1. 5633	1. 45180 1. 45155 1. 45420 1. 45395	1. 5158 1. 5150 1. 5203 1. 5195	1. 5601 1. 5609 1. 5625 1. 5633	1. 44360 1. 44385 1. 44810 1. 44835	1. 44360 1. 44335 1. 44810 1. 44785	1. 5601 1. 5609 1. 5625 1. 5633	1. 5601 1. 5609 1. 5629 1. 5633
1% 6-8 or 1. 5625-8	UN	2A 3A	1. 5432 1. 5425 1. 5454 1. 5447	1. 5603 1. 5610 1. 5625 1. 5632	1. 47910 1. 47885 1. 48130 1. 48105	1. 5258 1. 5251 1. 5299 1. 5292	1, 5603 1, 5610 1, 5625 1, 5632	1. 47170 1. 47195 1. 47580 1. 47605	1. 47170 1. 47145 1. 47580 1. 47555	1. 5603 1. 5610 1. 5625 1. 5632	1. 5603 1. 5610 1. 5623 1. 5633
19/16-12 or 1. 5625-12	UN	2A 3A	1. 5478 1. 5472 1. 5496 1. 5490	1. 5607 1. 5613 1. 5625 1. 5631	1. 50660 1. 50635 1. 50840 1. 50815	1. 5368 1. 5362 1. 5401 1. 5395	1. 5607 1. 5613 1. 5625 1. 5631	1. 50070 1. 50095 1. 50400 1. 50425	1. 50070 1. 50045 1. 50400 1. 50375	1. 5607 1. 5613 1. 5625 1. 5631	1, 5607 1, 5613 1, 5628 1, 5631
1916-16 or 1. 5625-16	UN	2A 3A	1. 5504 1. 5498 1. 5520 1. 5514	1. 5609 1. 5615 1. 5625 1. 5631	1. 52030 1. 52005 1. 52190 1. 52165	1. 5422 1. 5416 1. 5451 1. 5445	1. 5609 1. 5615 1. 5625 1. 5631	1. 51510 1. 51535 1. 51800 1. 51825	1. 51510 1. 51485 1. 51800 1. 51775	1. 5609 1. 5615 1. 5625 1. 5631	1. 5609 1. 5619 1. 5625 1. 5631
19/16-18 or 1. 5625-18	UNEF	2A 3A	1. 5513 1. 5508 1. 5528 1. 5523	1. 5610 1. 5615 1. 5625 1. 5630	1. 5249 1. 5247 1. 5264 1. 5262	1. 5440 1. 5435 1. 5468 1. 5463	1. 5610 1. 5615 1. 5625 1. 5630	1. 5199 1. 5201 1. 5227 1. 5229	1. 5199 1. 5197 1. 5227 1. 5225	1. 5610 1. 5615 1. 5625 1. 5630	1. 5610 1. 5615 1. 5625 1. 5630
1946-20 ог 1. 5625-20	UN	2A 3A	1. 5521 1. 5516 1. 5535 1. 5530	1. 5611 1. 5616 1. 5625 1. 5630	1. 5286 1. 5284 1. 5300 1. 5298	1. 5455 1. 5450 1. 5481 1. 5476	1. 5611 1. 5616 1. 5625 1. 5630	1. 5238 1. 5240 1. 5264 1. 5266	1. 5238 1. 5236 1. 5264 1. 5262	1. 5611 1. 5616 1. 5625 1. 5630	1. 5611 1. 5616 1. 5625 1. 5630
15%-6 or 1. 625-6	UN	2A 3A	1. 6015 1. 6007 1. 6040 1. 6032	1. 6225 1. 6233 1. 6250 1. 6258	1. 51420 1. 51395 1. 51670 1. 51645	1.5782 1.5774 1.5827 1.5819	1. 6225 1. 6233 1. 6250 1. 6258	1. 50600 1. 50625 1. 51050 1. 51075	1. 50600 1. 50575 1. 51050 1. 51025	1. 6225 1. 6233 1. 6250 1. 6258	1. 6225 1. 6233 1. 6256 1. 6258
15%-8 or 1. 625-8	UN	2A 3A	1. 6057 1. 6050 1. 6079 1. 6072	1. 6228 1. 6235 1. 6250 1. 6257	1. 54160 1. 54135 1. 54380 1. 54355	1. 5883 1. 5876 1. 5923 1. 5916	1. 6228 1. 6235 1. 6250 1. 6257	1. 53420 1. 53445 1. 53820 1. 53845	1. 53420 1. 53395 1. 53820 1. 53795	1. 6228 1. 6235 1. 6250 1. 6257	1. 6228 1. 6235 1. 6250 1. 6257
15%-12 or 1. 625-12	UN	2A 3A	1. 6103 1. 6097 1. 6121 1. 6115	1. 6232 1. 6238 1. 6250 1. 6256	1. 56910 1. 56885 1. 57090 1. 57065	1. 5993 1. 5987 1. 6026 1. 6020	1. 6232 1. 6238 1. 6250 1. 6256	1. 56320 1. 56345 1. 56650 1. 56675	1. 56320 1. 56295 1. 56650 1. 56625	1. 6232 1. 6238 1. 6250 1. 6256	1. 6232 1. 6238 1. 6250 1. 6256
15%-16 or 1. 625-16	UN	2A 3A	1. 6129 1. 6123 1. 6145 1. 6139	1. 6234 1. 6240 1. 6250 1. 6256	1. 58280 1. 58255 1. 58440 1. 58415	1. 6047 1. 6041 1. 6076 1. 6070	1. 6234 1. 6240 1. 6250 1. 6256	1. 57760 1. 57785 1. 58050 1. 58075	1. 57760 1. 57735 1. 58050 1. 58025	1. 6234 1. 6240 1. 6250 1. 6256	1. 6234 1. 6240 1. 6250 1. 6256
15%-18 or 1. 625-18	UNEF	2A 3A	1. 6138 1. 6133 1. 6153 1. 6148	1. 6235 1. 6240 1. 6250 1. 6255	1. 5874 1. 5872 1. 5889 1. 5887	1. 6065 1. 6060 1. 6093 1. 6088	1. 6235 1. 6240 1. 6250 1. 6255	1. 5824 1. 5826 1. 5852 1. 5854	1. 5824 1. 5822 1. 5852 1. 5850	1. 6235 1. 6240 1. 6250 1. 6255	1. 6238 1. 6240 1. 6250 1. 6255
15%-20 or 1. 625-20	UN	2A 3A	1. 6146 1. 6141 1. 6160 1. 6155	1. 6236 1. 6241 1. 6250 1. 6255	1. 5911 1. 5909 1. 5925 1. 5923	1. 6080 1. 6075 1. 6106 1. 6101	1. 6236 1. 6241 1. 6250 1. 6255	1. 5863 1. 5865 1. 5889 1. 5891	1. 5863 1. 5861 1. 5889 1. 5887	1. 6236 1. 6241 1. 6250 1. 6255	1. 6236 1. 6241 1. 6250 1. 6255

Table III.13.—Setting plug gages, Unified screw threads—Continued

)					W tru	ncated setting	g plugs			Basic-crest	setting plugs
			Plug fo	or GO thread	gage a	Plug fo	r LO or NO	T GO thread	l gage •	Major (liameter
Nominal size and threads per inch	Series des- ignation	Class	Major d	iameter	Pitch diameter	Major d	iameter	Pitch d	lameter	Plug for GO thread gage	Plug for LO or NOT GO thread gage
			Truncated	Full		Truncated	Full	Plus toler- ance gage	Minus tolerance gage	W and X tolerances	W and X tolerances
1	2	3	4	5	6	7	8	9	10	11	12
1 ¹ 1/6 ~ 6 or 1. 6875 ~ 6	UN	2A 3A	in. 1. 6640 1. 6632 1. 6665 1. 6657	in. 1. 6850 1. 6858 1. 6875 1. 6883	in. 1.57670 1.57645 1.57920 1.57895	in. 1. 6406 1. 6398 1. 6452 1. 6444	in. 1. 6850 1. 6858 1. 6875 1. 6883	in. 1. 56840 1. 56865 1. 57300 1. 57325	in. 1. 56840 1. 56815 1. 57300 1. 57275	in. 1. 6850 1. 6858 1. 6875 1. 6883	in. 1. 6850 1. 6858 1. 6875 1. 6883
1 ¹ ½6-8 or 1.6875-8	UN	2A 3A	1. 6682 1. 6675 1. 6704 1. 6697	1. 6853 1. 6860 1. 6875 1. 6882	1. 60410 1. 60385 1. 60630 1. 60605	1. 6507 1. 6500 1. 6548 1. 6541	1. 6853 1. 6860 1. 6875 1. 6882	1. 59660 1. 59685 1. 60070 1. 60095	1. 59660 1. 59635 1. 60070 1. 60045	1. 6853 1. 6860 1. 6875 1. 6882	1. 6853 1. 6860 1. 6875 1. 6882
1 ¹ ½6-12 or 1. 6875-12	UN	2A 3A	1. 6728 1. 6722 1. 6746 1. 6740	1. 6857 1. 6863 1. 6875 1. 6881	1. 63160 1. 63135 1. 63340 1. 63315	1. 6617 1. 6611 1. 6650 1. 6644	1. 6857 1. 6863 1. 6875 1. 6881	1. 62560 1. 62585 1. 62890 1. 62915	1. 62560 1. 62535 1. 62890 1. 62865	1. 6857 1. 6863 1. 6875 1. 6881	1. 6857 1. 6863 1. 6875 1. 6881
1 ¹ ½6-16 or 1. 6875-16	UN	2A 3A	1. 6754 1. 6748 1. 6770 1. 6764	1. 6859 1. 6865 1. 6875 1. 6881	1. 64530 1. 64505 1. 64690 1. 64665	1. 6671 1. 6665 1. 6700 1. 6694	1. 6859 1. 6865 1. 6875 1. 6881	1. 64000 1. 64025 1. 64290 1. 64315	1. 64000 1. 63975 1. 64290 1. 64265	1. 6859 1. 6865 1. 6875 1. 6881	1. 6859 1. 6865 1. 6875 1. 6881
1 ¹ ½6-18 or 1.6875-18	UNEF	2A 3A	1. 6763 1. 6758 1. 6778 1. 6773	1. 6860 1. 6865 1. 6875 1. 6880	1. 6499 1. 6497 1. 6514 1. 6512	1. 6689 1. 6684 1. 6717 1. 6712	1. 6860 1. 6865 1. 6875 1. 6880	1. 6448 1. 6450 1. 6476 1. 6478	1. 6448 1. 6446 1. 6476 1. 6474	1. 6860 1. 6865 1. 6875 1. 6880	1. 6860 1. 6865 1. 6875 1. 6880
111/16-20 or 1. 6875-20	UN	2A 3A	1. 6770 1. 6765 1. 6785 1. 6780	1. 6860 1. 6865 1. 6875 1. 6880	1. 6535 1. 6533 1. 6550 1. 6548	1. 6704 1. 6699 1. 6731 1. 6726	1, 6860 1, 6865 1, 6875 1, 6880	1. 6487 1. 6489 1. 6514 1. 6516	1. 6487 1. 6485 1. 6514 1. 6512	1. 6860 1. 6865 1. 6875 1. 6880	1. 6860 1. 6865 1. 6875 1. 6880
134-5 or 1.750-5	UNC	1A 2A 3A	1. 7234 1. 7226 1. 7234 1. 7226 1. 7261 1. 7253	1. 7473 1. 7481 1. 7473 1. 7481 1. 7500 1. 7508	1. 61740 1. 61715 1. 61740 1. 61715 1. 62010 1. 61985	1. 6906 1. 6898 1. 6951 1. 6943 1. 7000 1. 6992	1. 7473 1. 7481 1. 7473 1. 7481 1. 7500 1. 7508	1. 60400 1. 60425 1. 60850 1. 60875 1. 61340 1. 61365	1. 60400 1. 60375 1. 60850 1. 60825 1. 61340 1. 61315	1. 7473 1. 7481 1. 7473 1. 7481 1. 7500 1. 7508	1, 7473 1, 7481 1, 7473 1, 7481 1, 7500 1, 7508
1¾-6 or 1.750-6	UN	2A 3A	1. 7265 1. 7257 1. 7290 1. 7282	1. 7475 1. 7483 1. 7500 1. 7508	1. 63920 1. 63895 1. 64170 1. 64145	1. 7031 1. 7023 1. 7076 1. 7068	1. 7475 1. 7483 1. 7500 1. 7508	1. 63090 1. 63115 1. 63540 1. 63565	1. 63090 1. 63065 1. 63540 1. 63515	1. 7475 1. 7483 1. 7500 1. 7508	1. 7475 1. 7483 1. 7500 1. 7508
1¾-8 or 1. 750-8	UN	2A 3A	1. 7306 1. 7299 1. 7329 1. 7322	1. 7477 1. 7484 1. 7500 1. 7507	1. 66650 1. 66625 1. 66880 1. 66855	1. 7131 1. 7124 1. 7172 1. 7165	1. 7477 1. 7484 1. 7500 1. 7507	1. 65900 1. 65925 1. 66310 1. 66335	1. 65900 1. 65875 1. 66310 1. 66285	1. 7477 1. 7484 1. 7500 1. 7507	1. 7477 1. 7484 1. 7500 1. 7507
1¾-12 or 1. 750-12	UN	2A 3A	1. 7353 1. 7347 1. 7371 1. 7365	1. 7482 1. 7488 1. 7500 1. 7506	1. 69410 1. 69385 1. 69590 1. 69565	1. 7242 1. 7236 1. 7275 1. 7269	1. 7482 1. 7488 1. 7500 1. 7506	1. 68810 1. 68835 1. 69140 1. 69165	1. 68810 1. 68785 1. 69140 1. 69115	1. 7482 1. 7488 1. 7500 1. 7506	1. 7482 1. 7488 1. 7509 1. 7500
1¾-16 or 1, 750-16	UN	2A 3A	1. 7379 1. 7373 1. 7395 1. 7389	1. 7484 1. 7490 1. 7500 1. 7506	1. 70780 1. 70755 1. 70940 1. 70915	1. 7296 1. 7290 1. 7325 1. 7319	1. 7484 1. 7490 1. 7500 1. 7506	1. 70250 1. 70275 1. 70540 1. 70565	1. 70250 1. 70225 1. 70540 1. 70515	1. 7484 1. 7490 1. 7500 1. 7506	1. 7484 1. 7490 1. 7500 1. 7506
1¾-20 or 1.750-20	UN	2 A 3 A	1. 7395 1. 7390 1. 7410 1. 7405	1. 7485 1. 7490 1. 7500 1. 7505	1. 7160 1. 7158 1. 7175 1. 7173	1. 7329 1. 7324 1. 7356 1. 7351	1. 7485 1. 7490 1. 7500 1. 7505	1. 7112 1. 7114 1. 7139 1. 7141	1. 7112 1. 7110 1. 7139 1. 7137	1. 7485 1. 7490 1. 7500 1. 7505	1. 7485 1. 7490 1. 7500 1. 7505
1 ¹³ / ₁₆ -6 or 1. 8125-6	UN	2A 3A	1. 7890 1. 7882 1. 7915 1. 7907	1. 8100 1. 8108 1. 8125 1. 8133	1. 70170 1. 70145 1. 70420 1. 70395	1. 7655 1. 7647 1. 7701 1. 7693	1. 8100 1. 8108 1. 8125 1. 8133	1. 69330 1. 69355 1. 69790 1. 69815	1. 69330 1. 69305 1. 69790 1. 69765	1.8100 1.8108 1.8125 1.8133	1. 8100 1. 8108 1. 8125 1. 8133
1 ¹ 3/ ₁₆ -8 or 1. 8125-8	UN	2A 3A	1. 7931 1. 7924 1. 7954 1. 7947	1, 8102 1, 8109 1, 8125 1, 8132	1. 72900 1. 72875 1. 73130 1. 73105	1. 7755 1. 7748 1. 7797 1. 7790	1, 8102 1, 8109 1, 8125 1, 8132	1. 72140 1. 72165 1. 72560 1. 72585	1. 72140 1. 72115 1. 72560 1. 72535	1, 8102 1, 8109 1, 8125 1, 8132	1, 8102 1, 8109 1, 8125 1, 8132
1 ¹³ / ₆ -12 or 1. 8125-12	UN	2A 3A	1. 7978 1. 7972 1. 7996 1. 7990	1. 8107 1. 8113 1. 8125 1. 8131	1. 75660 1. 75635 1. 75840 1. 75815	1. 7867 1. 7861 1. 7900 1. 7894	1. 8107 1. 8113 1. 8125 1. 8131	1. 75060 1. 75085 1. 75390 1. 75415	1. 75060 1. 75035 1. 75390 1. 75365	1.8107 1.8113 1.8125 1.8131	1. 8107 1. 8113 1. 8125 1. 8131

Table III.13.—Setting plug gages, Unified screw threads—Continued

			1		W trui	ncated setting	plugs			Basic-crest	setting plug
			Plug fo	r GO thread	gage •	Plug for	LO or NO	T GO thread	gage •	Major (liameter
Nominal size and threads per inch	Series des- ignation	Class	Major d	iameter	Pitch diameter	Major di	ameter	Pitch d	iameter	Plug ford GO thread gage	Plug for L or NOT G thread gage
			Truncated	Full		Truncated	Full	Plus toler- ance gage	Minus tolerance gage	W and X tolerances	W and X tolerances
1	2	3	4	5	6	7	8	9	10	11	12
1 ¹³ / ₁₆ -16 or 1. 8125-16	UN	2A 3A	in. 1. 8004 1. 7998 1. 8020 1. 8014	in. 1. 8109 1. 8115 1. 8125 1. 8131	in. 1. 77030 1. 77005 1. 77190 1. 77165	in. 1. 7921 1. 7915 1. 7950 1. 7944	in. 1. 8109 1. 8115 1. 8125 1. 8131	in. 1. 76500 1. 76525 1. 76790 1. 76815	in. 1. 76500 1. 76475 1. 76790 1. 76765	in. 1.8109 1.8115 1.8125 1.8131	in. 1. 810 1. 811 1. 811 1. 813
1 ¹ 3/ ₁₆ -20 or 1. 8125-20	UN	2A 3A	1. 8020 1. 8015 1. 8035 1. 8030	1. 8110 1. 8115 1. 8125 1. 8130	1. 7785 1. 7783 1. 7800 1. 7798	1. 7954 1. 7949 1. 7981 1. 7976	1, 8110 1, 8115 1, 8125 1, 8130	1, 7737 1, 7739 1, 7764 1, 7766	1. 7737 1. 7735 1. 7764 1. 7762	1.8110 1.8115 1.8125 1.8130	1. 81 1. 81 1. 81 1. 81
176-6 or 1. 875-6	UN	2A 3A	1. 8515 1. 8507 1. 8540 1. 8532	1. 8725 1. 8733 1. 8750 1. 8758	1. 76420 1. 76395 1. 76670 1. 76645	1. 8280 1. 8272 1. 8326 1. 8318	1, 8725 1, 8733 1, 8750 1, 8758	1. 75580 1. 75605 1. 76040 1. 76065	1. 75580 1. 75555 1. 76040 1. 76015	1. 8725 1. 8733 1. 8750 1. 8758	1. 87 1. 87 1. 87 1. 87
17%-8 or 1. 875-8	UN	2A 3A	1. 8556 1. 8549 1. 8579 1. 8572	1. 8727 1. 8734 1. 8750 1. 8757	1, 79150 1, 79125 1, 79380 1, 79355	1. 8379 1. 8372 1. 8422 1. 8415	1, 8727 1, 8734 1, 8750 1, 8757	1. 78380 1. 78405 1. 78810 1. 78835	1, 78380 1, 78355 1, 78810 1, 78785	1. 8727 1. 8734 1. 8750 1. 8757	1. 87 1. 87 1. 87 1. 87
17/6-12 or 1. 875-12	UN	2A 3A	1. 8603 1. 8597 1. 8621 1. 8615	1. 8732 1. 8738 1. 8750 1. 8756	1. 81910 1. 81885 1. 82090 1. 82065	1. 8492 1. 8486 1. 8525 1. 8519	1. 8732 1. 8738 1. 8750 1. 8756	1. 81310 1. 81335 1. 81640 1. 81665	1. 81310 1. 81285 1. 81640 1. 81615	1. 8732 1. 8738 1. 8750 1. 8756	1. 87 1. 87 1. 87 1. 87
17%-16 or 1. 875-16	UN	2A 3A	1. 8629 1. 8623 1. 8645 1. 8639	1. 8734 1. 8740 1. 8750 1. 8756	1. 83280 1. 83255 1. 83440 1. 83415	1. 8546 1. 8540 1. 8575 1. 8569	1. 8734 1. 8740 1. 8750 1. 8756	1. 82750 1. 82775 1. 83040 1. 83065	1. 82750 1. 82725 1. 83040 1. 83015	1. 8734 1. 8740 1. 8750 1. 8756	1. 87 1. 87 1. 87 1. 87
17/s-20 or 1. 875-20	UN	2A 3A	1. 8645 1. 8640 1. 8660 1. 8655	1, 8735 1, 8740 1, 8750 1, 8755	1. 8410 1. 8408 1. 8425 1. 8423	1. 8579 1. 8574 1. 8606 1. 8601	1. 8735 1. 8740 1. 8750 1. 8755	1. 8362 1. 8364 1. 8389 1. 8391	1. 8362 1. 8360 1. 8389 1. 8387	1. 8735 1. 8740 1. 8750 1. 8755	1. 87 1. 87 1. 87
1 ¹⁵ / ₁₆ -6 or 1. 9375-6	UN	2A 3A	1. 9139 1. 9131 1. 9165 1. 9157	1. 9349 1. 9357 1. 9375 1. 9383	1. 82660 1. 82635 1. 82920 1. 82895	1. 8903 1. 8895 1. 8950 1. 8942	1. 9349 1. 9357 1. 9375 1. 9383	1. 81810 1. 81835 1. 82280 1. 82305	1. 81810 1. 81785 1. 82280 1. 82255	1. 9349 1. 9357 1. 9375 1. 9383	1. 93 1. 93 1. 93 1. 93
1 ¹⁵ / ₁₆ -8 or 1. 9375-8	UN	2A 3A	1. 9181 1. 9174 1. 9204 1. 9197	1, 9352 1, 9359 1, 9375 1, 9382	1. 85400 1. 85375 1. 85630 1. 85605	1. 9004 1. 8997 1. 9046 1. 9039	1. 9352 1. 9359 1. 9375 1. 9382	1. 84630 1. 84655 1. 85050 1. 85075	1. 84630 1. 84605 1. 85050 1. 85025	1. 9352 1. 9359 1. 9375 1. 9382	1. 93 1. 93 1. 93 1. 93
1 ¹⁵ / ₆ -12 or 1. 9375-12	UN	2A 3A	1. 9228 1. 9222 1. 9246 1. 9240	1. 9357 1. 9363 1. 9375 1. 9381	1. 88160 1. 88135 1. 88340 1. 88315	1, 9116 1, 9110 1, 9150 1, 9144	1. 9357 1. 9363 1. 9375 1. 9381	1. 87550 1. 87575 1. 87890 1. 87915	1. 87550 1. 87525 1. 87890 1. 87865	1. 9357 1. 9363 1. 9375 1. 9381	1. 93 1. 93 1. 93 1. 93
1 ¹⁵ / ₁₆ -16 or 1. 9375-16	UN	2A 3A	1. 9254 1. 9248 1. 9270 1. 9264	1. 9359 1. 9365 1. 9375 1. 9381	1. 89530 1. 89505 1. 89690 1. 89665	1. 9170 1. 9164 1. 9200 1. 9194	1. 9359 1. 9365 1. 9375 1. 9381	1. 88990 1. 89015 1. 89290 1. 89315	1. 88990 1. 88965 1. 89290 1. 89265	1. 9359 1. 9365 1. 9375 1. 9381	1. 93 1. 93 1. 93 1. 93
1 ¹⁵ ⁄ ₁₆ -20 or 1. 9375-20	UN	2A 3A	1. 9270 1. 9265 1. 9285 1. 9280	1. 9360 1. 9365 1. 9375 1. 9380	1. 9035 1. 9033 1. 9050 1. 9048	1. 9203 1. 9198 1. 9230 1. 9225	1. 9360 1. 9365 1. 9375 1. 9380	1. 8986 1. 8988 1. 9013 1. 9015	1. 8986 1. 8984 1. 9013 1. 9011	1. 9360 1. 9365 1. 9375 1. 9380	1. 93 1. 93 1. 93 1. 93
2-4½ or 2. 000-4.5	UNC	1A 2A 3A	1. 9713 1. 9705 1. 9713 1. 9705 1. 9742 1. 9734	1. 9971 1. 9979 1. 9971 1. 9979 2. 0000 2. 0008	1. 85280 1. 85255 1. 85280 1. 85255 1. 85570 1. 85545	1. 9347 1. 9339 1. 9395 1. 9387 1. 9448 1. 9440	1. 9971 1. 9979 1. 9971 1. 9979 2. 0000 2. 0008	1. 83850 1. 83875 1. 84330 1. 84355 1. 84860 1. 84885	1. 83850 1. 83825 1. 84330 1. 84305 1. 84860 1. 84835	1. 9971 1. 9979 1. 9971 1. 9979 2. 0000 2. 0008	1. 99 1. 99 1. 99 1. 99 2. 00 2. 00
2-6 or 2. 000-6	UN	2A 3A	1. 9764 1. 9756 1. 9790 1. 9782	1, 9974 1, 9982 2, 0000 2, 0008	1, 88910 1, 88885 1, 89170 1, 89145	1. 9527 1. 9519 1. 9575 1. 9567	1, 9974 1, 9982 2, 0000 2, 0008	1. 88050 1. 88075 1. 88530 1. 88555	1. 88050 1. 88025 1. 88530 1. 88505	1, 9974 1, 9982 2, 0000 2, 0008	1. 99 1. 99 2. 00 2. 00
2-8 or 2. 000-8	UN	2A 3A	1. 9806 1. 9799 1. 9829 1. 9822	1. 9977 1. 9984 2. 0000 2. 0007	1. 91650 1. 91625 1. 91880 1. 91855	1. 9628 1. 9621 1. 9671 1. 9664	1. 9977 1. 9984 2. 0000 2. 0007	1. 90870 1. 90895 1. 91300 1. 91325	1. 90870 1. 90845 1. 91300 1. 91275	1. 9977 1. 9984 2. 0000 2. 0007	1. 99 1. 99 2. 00 2. 00

TABLE III.13.—Setting plug gages, Unified screw threads—Continued

					W tru	ncated setting	g plugs			Basic-crest	setting plugs
			Plug fo	or GO thread	gage •	Plug fo	r LO or NO	T GO thread	gage •	Major	liameter
Nominal size and threads per inch	Series des- ignation	Class	Major d	iameter	Pitch diameter	Major d	iameter	Pitch d	iameter	Plug for GO thread gage	Plug for LO or NOT GO thread gage
			Truncated	Full		Truncated	Full	Plus toler- ance gage	Minus tolerance gage	W and X tolerances	W and X tolerances
1	2	3	4	5	6	7	8	9	10	11	12
2-12 or 2. 000-12	UN	2A 3A	in. 1. 9853 1. 9847 1. 9871 1. 9865	in. 1. 9982 1. 9988 2. 0000 2. 0006	in. 1. 94410 1. 94385 1. 94590 1. 94565	in. 1. 9741 1. 9735 1. 9775 1. 9769	in. 1. 9982 1. 9988 2. 0000 2. 0006	in. 1. 93800 1. 93825 1. 94140 1. 94165	in. 1. 93800 1. 93775 1. 94140 1. 94115	in. 1. 9982 1. 9988 2. 0000 2. 0006	in. 1. 9982 1. 9988 2. 0000 2. 0006
2-16 or 2. 000-16	UN	2A 3A	1, 9879 1, 9873 1, 9895 1, 9889	1. 9984 1. 9990 2. 0000 2. 0006	1. 95780 1. 95755 1. 95940 1. 95915	1. 9795 1. 9789 1. 9825 1. 9819	1. 9984 1. 9990 2. 0000 2. 0006	1. 95240 1. 95265 1. 95540 1. 95565	1. 95240 1. 95215 1. 95540 1. 95515	1. 9984 1. 9990 2. 0000 2. 0006	1. 9984 1. 9990 2. 0000 2. 0006
2-20 or 2. 000-20	UN	2A 3A	1. 9895 1. 9890 1. 9910 1. 9905	1. 9985 1. 9990 2. 0000 2. 0005	1. 9660 1. 9658 1. 9675 1. 9673	1. 9828 1. 9823 1. 9855 1. 9850	1. 9985 1. 9990 2. 0000 2. 0005	1. 9611 1. 9613 1. 9638 1. 9640	1. 9611 1. 9609 1. 9638 1. 9636	1. 9985 1. 9990 2. 0000 2. 0005	1. 9985 1. 9990 2. 0000 2. 0005
2½-6 or 2.125-6	UN	2A 3A	2. 1014 2. 1006 2. 1040 2. 1032	2. 1224 2. 1232 2. 1250 2. 1258	2. 01410 2. 01385 2. 01670 2. 01645	2. 0776 2. 0768 2. 0824 2. 0816	2. 1224 2. 1232 2. 1250 2. 1258	2. 00540 2. 00565 2. 01020 2. 01045	2. 00540 2. 00515 2. 01020 2. 00995	2. 1224 2. 1232 2. 1250 2. 1258	2. 1224 2. 1232 2. 1250 2. 1258
2½-8 or 2. 125-8	UN	2A 3A	2, 1055 2, 1048 2, 1079 2, 1072	2. 1226 2. 1233 2. 1250 2. 1257	2. 04140 2. 04115 2. 04380 2. 04355	2. 0876 2. 0869 2. 0920 2. 0913	2. 1226 2. 1233 2. 1250 2. 1257	2. 03350 2. 03375 2. 03790 2. 03815	2. 03350 2. 03325 2. 03790 2. 03765	2. 1226 2. 1233 2. 1250 2. 1257	2. 1226 2. 1233 2. 1250 2. 1257
2}6-12 or 2. 125-12	UN	2A 3A	2. 1103 2. 1097 2. 1121 2. 1115	2. 1232 2. 1238 2. 1250 2. 1256	2. 06910 2. 06885 2. 07090 2. 07065	2. 0991 2. 0985 2. 1025 2. 1019	2. 1232 2. 1238 2. 1250 2. 1256	2. 06300 2. 06325 2. 06640 2. 06665	2. 06300 2. 06275 2. 06640 2. 06615	2. 1232 2. 1238 2. 1250 2. 1256	2. 1232 2. 1238 2. 1250 2. 1256
2}%-16 or 2. 125-16	UN	2A 3A	2. 1129 2. 1123 2. 1145 2. 1139	2. 1234 2. 1240 2. 1250 2. 1256	2. 08280 2. 08255 2. 08440 2. 08415	2. 1045 2. 1039 2. 1075 2. 1069	2. 1234 2. 1240 2. 1250 2. 1256	2. 07740 2. 07765 2. 08040 2. 08065	2. 07740 2. 07715 2. 08040 2. 08015	2. 1234 2. 1240 2. 1250 2. 1256	2. 1234 2. 1240 2. 1250 2. 1256
2½-20 or 2. 125-20	UN	2A 3A	2. 1145 2. 1140 2. 1160 2. 1155	2. 1235 2. 1240 2. 1250 2. 1255	2. 0910 2. 0908 2. 0925 2. 0923	2. 1078 2. 1073 2. 1105 2. 1100	2. 1235 2. 1240 2. 1250 2. 1255	2. 0861 2. 0863 2. 0888 2. 0890	2. 0861 2. 0859 2. 0888 2. 0886	2. 1235 2. 1240 2. 1250 2. 1255	2. 1235 2. 1240 2. 1250 2. 1255
2¼-4½ or 2. 250-4. 5	UNC	1A 2A 3A	2. 2213 2. 2205 2. 2213 2. 2205 2. 2242 2. 2234	2. 2471 2. 2479 2. 2479 2. 2479 2. 2500 2. 2508	2. 10280 2. 10255 2. 10280 2. 10255 2. 10570 2. 10545	2. 1844 2. 1836 2. 1893 2. 1885 2. 1946 2. 1938	2. 2471 2. 2479 2. 2479 2. 2479 2. 2500 2. 2508	2. 08820 2. 08845 2. 09310 2. 09335 2. 09840 2. 09865	2. 08820 2. 08795 2. 09310 2. 09285 2. 09840 2. 09815	2. 2471 2. 2479 2. 2471 2. 2479 2. 2500 2. 2508	2. 2471 2. 2479 2. 2471 2. 2479 2. 2500 2. 2508
2½-6 or 2. 250-6	UN	2A 3A	2. 2264 2. 2256 2. 2290 2. 2282	2. 2474 2. 2482 2. 2500 2. 2508	2. 13910 2. 13885 2. 14170 2. 14145	2. 2025 2. 2017 2. 2073 2. 2065	2. 2474 2. 2482 2. 2500 2. 2508	2. 13030 2. 13055 2. 13510 2. 13535	2. 13030 2. 13005 2. 13510 2. 13485	2. 2474 2. 2482 2. 2500 2. 2508	2. 2474 2. 2482 2. 2500 2. 2508
2½-8 or 2. 250-8	UN	2A 3A	2. 2305 2. 2298 2. 2329 2. 2322	2. 2476 2. 2483 2. 2500 2. 2507	2. 16640 2. 16615 2. 16880 2. 16855	2. 2125 2. 2118 2. 2169 2. 2162	2. 2476 2. 2483 2. 2500 2. 2507	2. 15840 2. 15865 2. 16280 2. 16305	2. 15840 2. 15815 2. 16280 2. 16255	2. 2476 2. 2483 2. 2500 2. 2507	2. 2476 2. 2483 2. 2500 2. 2507
2¼-12 or 2. 250-12	UN	2A 3A	2. 2353 2. 2347 2. 2371 2. 2365	2. 2482 2. 2488 2. 2500 2. 2506	2. 19410 2. 19385 2. 19590 2. 19565	2. 2241 2. 2235 2. 2275 2. 2269	2. 2482 2. 2488 2. 2500 2. 2506	2. 18800 2. 18825 2. 19140 2. 19165	2. 18800 2. 18775 2. 19140 2. 19115	2. 2482 2. 2488 2. 2500 2. 2506	2. 2482 2. 2488 2. 2500 2. 2506
2½-16 or 2. 250-16	UN	2A 3A	2. 2379 2. 2373 2. 2395 2. 2389	2. 2484 2. 2490 2. 2500 2. 2506	2. 20780 2. 20755 2. 20940 2. 20915	2. 2295 2. 2289 2. 2325 2. 2319	2. 2484 2. 2490 2. 2500 2. 2506	2. 20240 2. 20265 2. 20540 2. 20565	2. 20240 2. 20215 2. 20540 2. 20515	2. 2484 2. 2490 2. 2500 2. 2506	2. 2484 2. 2490 2. 2500 2. 2506
2¼-20 or 2. 250-20	UN	2A 3A	2. 2395 2. 2390 2. 2410 2. 2405	2. 2485 2. 2490 2. 2500 2. 2505	2. 2160 2. 2158 2. 2175 2. 2173	2. 2328 2. 2323 2. 2355 2. 2350	2. 2485 2. 2490 2. 2500 2. 2505	2. 2111 2. 2113 2. 2138 2. 2140	2. 2111 2. 2109 2. 2138 2. 2136	2. 2485 2. 2490 2. 2500 2. 2505	2. 2485 2. 2490 2. 2500 2. 2505
2¾-6 or 2. 375-6	UN	2A 3A	2. 3513 2. 3505 2. 3540 2. 3532	2. 3723 2. 3731 2. 3750 2. 3758	2. 26400 2. 26375 2. 26670 2. 26645	2. 3273 2. 3265 2. 3323 2. 3315	2. 3723 2. 3731 2. 3750 2. 3758	2. 25510 2. 25535 2. 26010 2. 26035	2. 25510 2. 25485 2. 26010 2. 25985	2. 3723 2. 3731 2. 3750 2. 3758	2. 3723 2. 3731 2. 3750 2. 3758

Table III.13.—Setting plug gages, Unified screw threads—Continued

					W trunc	ated setting p	lugs			Basic-crest	setting plugs
			Plug for	GO thread g	age •	Plug for 1	LO or NO	Γ GO thread	gage 4	Major d	liameter
Nominal size and threads per inch	Series des- ignation	Class	Major dia	ameter	Pitch diameter	Major dia	ımeter	Pitch di	ameter	Plug for GO thread gage	Plug for L(or NOT G(thread gage
			Truncated	Full		Truncated	Full	Plus toler- ance gage	Minus tolerance gage	W and X tolerances	W and X tolerances
1	2	3	4	5	6	7	8	9	10	11	12
23%-8 or 2. 375-8	UN	2A 3A	in. 2. 3555 2. 3548 2. 3579 2. 3572	in. 2. 3726 2. 3733 2. 3750 2. 3757	in, 2. 29140 2. 29115 2. 29380 2. 29355	in. 2. 3374 2. 3367 2. 3419 2. 3412	in. 2. 3726 2. 3733 2. 3750 2. 3757	in. 2. 28330 2. 28355 2. 28780 2. 28805	in. 2. 28330 2. 28305 2. 28780 2. 28755	in. 2. 3726 2. 3733 2. 3750 2. 3757	in. 2. 3726 2. 3733 2. 3750 2. 3757
2%-12 or 2. 375-12	UN	2A 3A	2. 3602 2. 3596 2. 3621 2. 3615	2. 3731 2. 3737 2. 3750 2. 3756	2. 31900 2. 31875 2. 32090 2. 32065	2. 3489 2. 3483 2. 3524 2. 3518	2. 3731 2. 3737 2. 3750 2. 3756	2. 31280 2. 31305 2. 31630 2. 31655	2. 31280 2. 31255 2. 31630 2. 31605	2. 3731 2. 3737 2. 3750 2. 3756	2. 3731 2. 3737 2. 3750 2. 3756
23/s-16 or 2. 375-16	UN	2A 3A	2. 3628 2. 3622 2. 3645 2. 3639	2. 3733 2. 3739 2. 3750 2. 3756	2. 33270 2. 33245 2. 33440 2. 33415	2. 3543 2. 3537 2. 3574 2. 3568	2. 3733 2. 3739 2. 3750 2. 3756	2. 32720 2. 32745 2. 33030 2. 33055	2. 32720 2. 32695 2. 33030 2. 33005	2. 3733 2. 3739 2. 3750 2. 3756	2. 3733 2. 3739 2. 3750 2. 3750
23%-20 or 2. 375-20	UN	2A 3A	2. 3645 2. 3640 2. 3660 2. 3655	2. 3735 2. 3740 2. 3750 2. 3755	2. 3410 2. 3408 2. 3425 2. 3423	2. 3576 2. 3571 2. 3604 2. 3599	2. 3734 2. 3739 2. 3750 2. 3755	2. 3359 2. 3361 2. 3387 2. 3389	2. 3359 2. 3357 2. 3387 2. 3385	2. 3735 2. 3740 2. 3750 2. 3755	2. 3734 2. 3739 2. 3750 2. 3750
2½-4 or 2. 500-4	UNC	1 A 2 A 3 A	2. 4688 2. 4679 2. 4688 2. 4679 2. 4719 2. 4710	2. 4969 2. 4978 2. 4969 2. 4978 2. 5000 2. 5009	2. 33450 2. 33425 2. 33450 2. 33425 2. 33760 2. 33735	2. 4273 2. 4264 2. 4324 2. 4315 2. 4381 2. 4372	2. 4969 2. 4978 2. 4969 2. 4978 2. 5000 2. 5009	2. 31900 2. 31925 2. 32410 2. 32435 2. 32980 2. 33005	2. 31900 2. 31875 2. 32410 2. 32385 2. 32980 2. 32955	2. 4969 2. 4978 2. 4969 2. 4978 2. 5000 2. 5009	2. 4969 2. 4978 2. 4969 2. 4978 2. 5000 2. 5000
2½-6 or 2. 500-6	UN	2A 3A	2. 4763 2. 4755 2. 4790 2. 4782	2. 4973 2. 4981 2. 5000 2. 5008	2. 38900 2. 38875 2. 39170 2. 39145	2. 4522 2. 4514 2. 4572 2. 4564	2. 4973 2. 4981 2. 5000 2. 5008	2. 38000 2. 38025 2. 38500 2. 38525	2. 38000 2. 37975 2. 38500 2. 38475	2. 4973 2. 4981 2. 5000 2. 5008	2. 4973 2. 4981 2. 5000 2. 5008
2½-8 or 2. 500-8	UN	2A 3A	2. 4805 2. 4798 2. 4829 2. 4822	2. 4976 2. 4983 2. 5000 2. 5007	2. 41640 2. 41615 2. 41880 2. 41855	2. 4623 2. 4616 2. 4668 2. 4661	2. 4976 2. 4983 2. 5000 2. 5007	2. 40820 2. 40845 2. 41270 2. 41295	2. 40820 2. 40795 2. 41270 2. 41245	2. 4976 2. 4983 2. 5000 2. 5007	2. 4976 2. 4983 2. 5000 2. 5000
2½-12 or 2. 500-12	UN	2A 3A	2. 4852 2. 4846 2. 4871 2. 4865	2. 4981 2. 4987 2. 5000 2. 5006	2. 44400 2. 44375 2. 44590 2. 44565	2. 4739 2. 4733 2. 4774 2. 4768	2. 4981 2. 4987 2. 5000 2. 5006	2. 43780 2. 43805 2. 44130 2. 44155	2. 43780 2. 43755 2. 44130 2. 44105	2. 4981 2. 4987 2. 5000 2. 5006	2. 4981 2. 4987 2. 5000 2. 5000
2½-16 or 2. 500-16	UN	2A 3A	2. 4878 2. 4872 2. 4895 2. 4889	2. 4983 2. 4989 2. 5000 2. 5006	2. 45770 2. 45745 2. 45940 2. 45915	2 4793 2. 4787 2. 4824 2. 4818	2. 4983 2. 4989 2. 5000 2. 5006	2. 45220 2. 45245 2. 45530 2. 45555	2. 45220 2. 45195 2. 45530 2. 45505	2. 4983 2. 4989 2. 5000 2. 5006	2. 4983 2. 4989 2. 5000 2. 5000
2½-20 or 2. 500-20	UN	2A 3A	2. 4895 2. 4890 2. 4910 2. 4905	2. 4985 2. 4990 2. 5000 2. 5005	2. 4660 2. 4658 2. 4675 2. 4673	2. 4826 2. 4821 2. 4854 2. 4849	2. 4984 2. 4989 2. 5000 2. 5005	2. 4609 2. 4611 2. 4637 2. 4639	2. 4609 2. 4607 2. 4637 2. 4635	2. 4985 2. 4990 2. 5000 2. 5005	2. 4984 2. 4986 2. 5000 2. 5000
25%-6 or 2. 625-6	UN	2A 3A	2. 6013 2. 6005 2. 6040 2. 6032	2. 6223 2. 6231 2. 6250 2. 6258	2. 51400 2. 51375 2. 51670 2. 51645	2. 5772 2. 5764 2. 5821 2. 5813	2. 6223 2. 6231 2. 6250 2. 6258	2. 50500 2. 50525 2. 50990 2. 51015	2. 50500 2. 50475 2. 50990 2. 50965	2. 6223 2. 6231 2. 6250 2. 6258	2. 6223 2. 6231 2. 6250 2. 6258
25%-8 or 2. 625-8	UN	2A 3A	2. 6054 2. 6047 2. 6079 2. 6072	2-6225 2.6232 2.6250 2.6257	2. 54130 2. 54105 2. 54380 2. 54355	2. 5872 2. 5865 2. 5917 2. 5910	2. 6225 2. 6232 2. 6250 2. 6257	2. 53310 2. 53335 2. 53760 2. 53785	2. 53310 2. 53285 2. 53760 2. 53735	2. 6225 2. 6232 2. 6250 2. 6257	2. 6225 2. 6232 2. 6250 2. 6257
25%-12 or 2. 625-12	UN	2A 3A	2. 6102 2. 6096 2. 6121 2. 6115	2. 6231 2. 6237 2. 6250 2. 6256	2. 56900 2. 56875 2. 57090 2. 57065	2. 5989 2. 5983 2. 6024 2. 6018	2. 6231 2. 6237 2. 6250 2. 6256	2. 56280 2. 56305 2. 56630 2. 56655	2. 56280 2. 56255 2. 56630 2. 56605	2. 6231 2. 6237 2. 6250 2. 6256	2. 6231 2. 6237 2. 6250 2. 6256
25%-16 or 2. 625-16	UN	2A 3A	2. 6128 2. 6122 2. 6145 2. 6139	2. 6233 2. 6239 2. 6250 2. 6256	2. 58270 2. 58245 2. 58440 2. 58415	2. 6043 2. 6037 2. 6074 2. 6068	2. 6233 2. 6239 2. 6250 2. 6256	2. 57720 2. 57745 2. 58030 2. 58055	2. 57720 2. 57695 2. 58030 2. 58005	2. 6233 2. 6239 2. 6250 2. 6256	2. 6233 2. 6239 2. 6250 2. 6256
25%-20 or 2. 625-20	UN	2A 3A	2. 6145 2. 6140 2. 6160 2. 6155	2. 6235 2. 6240 2. 6250 2. 6255	2. 5910 2. 5908 2. 5925 2. 5923	2. 6076 2. 6071 2. 6104 2. 6099	2. 6234 2. 6239 2. 6250 2. 6255	2. 5859 2. 5861 2. 5887 2. 5889	2. 5859 2. 5857 2. 5887 2. 5885	2. 6235 2. 6240 2. 6250 2. 6255	2. 6234 2. 6239 2. 6250 2. 6255

Table III.13.—Setting plug gages, Unified screw threads—Continued

					W trun	cated setting	plugs			Basic-crest	setting plug
			Plug for	GO thread a	gage 4	Plug for	LO or NO	T GO thread	gage a	Major o	liameter
·Nominal size and threads per inch	Series des- ignation	Class	Major di	ameter	Pitch diameter	Major dia	meter	Pitch d	iameter	Plug for GO thread gage	Plug for L or NOT G thread gage
			Truncated	Full		Truncated	Full	Plus toler- ance gage	Minus tolerance gage	W and X tolerances	W and X tolerances
1	2	3	4	5	6	7	8	9	10	11	12
234-4 or 2. 750-4	UNC	1A 2A 3A	in. 2. 7187 2. 7178 2. 7187 2. 7178 2. 7178 2. 7219 2. 7210	in. 2. 7468 2. 7477 2. 7468 2. 7477 2. 7500 2. 7509	in. 2. 58440 2. 58415 2. 58440 2. 58415 2. 58460 2. 58760 2. 58735	in. 2. 6769 2. 6760 2. 6822 2. 6813 2. 6880 2. 6871	in. 2. 7468 2. 7477 2. 7468 2. 7477 2. 7500 2. 7509	in. 2. 56860 2. 56885 2. 57390 2. 57415 2. 57970 2. 57995	in. 2. 56860 2. 56835 2. 57390 2. 57365 2. 57970 2. 57945	in. 2. 7468 2. 7477 2. 7468 2. 7477 2. 7500 2. 7509	in. 2. 74 2. 74 2. 74 2. 74 2. 75 2. 75
2¾-6 or 2. 750-6	UN	2A 3A	2. 7263 2. 7255 2. 7290 2. 7282	2. 7473 2. 7481 2. 7500 2. 7508	2. 63900 2. 63875 2. 64170 2. 64145	2. 7021 2. 7013 2. 7071 2. 7063	2. 7473 2. 7481 2. 7500 2. 7508	2. 62990 2. 63015 2. 63490 2. 63515	2. 62990 2. 62965 2. 63490 2. 63465	2. 7473 2. 7481 2. 7500 2. 7508	2. 74 2. 74 2. 75 2. 75
2 ³ ⁄ ₄ -8 or 2. 750-8	UN	2A 3A	2. 7304 2. 7297 2. 7329 2. 7322	2. 7475 2. 7482 2. 7500 2. 7507	2. 66630 2. 66605 2. 66880 2. 66855	2. 7121 2. 7114 2. 7167 2. 7160	2. 7475 2. 7482 2. 7500 2. 7507	2. 65800 2. 65825 2. 66250 2. 66275	2. 65800 2. 65775 2. 66250 2. 66225	2. 7475 2. 7482 2. 7500 2. 7507	2. 74 2. 74 2. 75 2. 75
2¾-12 or 2. 750-12	UN	2A 3A	2. 7352 2. 7346 2. 7371 2. 7365	2. 7481 2. 7487 2. 7500 2. 7506	2. 69400 2. 69375 2. 69590 2. 69565	2. 7239 2. 7233 2. 7274 2. 7268	2. 7481 2. 7487 2. 7500 2. 7506	2. 68780 2. 68805 2. 69130 2. 69155	2. 68780 2. 68755 2. 69130 2. 69105	2. 7481 2. 7487 2. 7500 2. 7506	2. 74 2. 74 2. 75 2. 75
2¾-16 or 2. 750-16	UN	2A 3A	2. 7378 2. 7372 2. 7395 2. 7389	2. 7483 2. 7489 2. 7500 2. 7506	2. 70770 2. 70745 2. 70940 2. 70915	2. 7293 2. 7287 2. 7324 2. 7318	2. 7483 2. 7489 2. 7500 2. 7506	2. 70220 2. 70245 2. 70530 2. 70555	2. 70220 2. 70195 2. 70530 2. 70505	2. 7483 2. 7489 2. 7500 2. 7506	2. 74 2. 74 2. 75 2. 75
2¾-20 or 2. 750-20	UN	2A 3A	2. 7395 2. 7390 2. 7410 2. 7405	2. 7485 2. 7490 2. 7500 2. 7505	2. 7160 2. 7158 2. 7175 2. 7173	2. 7326 2. 7321 2. 7354 2. 7349	2. 7484 2. 7489 2. 7500 2. 7505	2. 7109 2. 7111 2. 7137 2. 7139	2. 7109 2. 7107 2. 7137 2. 7135	2. 7485 2. 7490 2. 7500 2. 7505	2. 74 2. 74 2. 75 2. 75
2%-6 or 2. 875-6	UN	2A 3A	2. 8512 2. 8504 2. 8540 2. 8532	2. 8722 2. 8730 2. 8750 2. 8758	2. 76390 2. 76365 2. 76670 2. 76645	2. 8269 2. 8261 2. 8320 2. 8312	2. 8722 2. 8730 2. 8750 2. 8758	2. 75470 2. 75495 2. 75980 2. 76005	2. 75470 2. 75445 2. 75980 2. 75955	2. 8722 2. 8730 2. 8750 2. 8758	2. 87 2. 87 2. 87 2. 87
27/s-8 or 2. 875-8	UN	2A 3A	2. 8554 2. 8547 2. 8579 2. 8572	2. 8725 2. 8732 2. 8750 2. 8757	2. 79130 2. 79105 2. 79380 2. 79355	2. 8370 2. 8363 2. 8416 2. 8409	2. 8725 2. 8732 2. 8750 2. 8757	2. 78290 2. 78315 2. 78750 2. 78775	2. 78290 2. 78265 2. 78750 2. 78725	2. 8725 2. 8732 2. 8750 2. 8757	2. 87 2. 87 2. 87 2. 87
2%-12 or 2. 875-12	UN	2A 3A	2. 8602 2. 8596 2. 8621 2. 8615	2. 8731 2. 8737 2. 8750 2. 8756	2. 81900 2. 81875 2. 82090 2. 82065	2. 8488 2. 8482 2. 8523 2. 8517	2. 8731 2. 8737 2. 8750 2. 8756	2. 81270 2. 81295 2. 81620 2. 81645	2. 81270 2. 81245 2. 81620 2. 81595	2. 8731 2. 8737 2. 8750 2. 8756	2. 87 2. 87 2. 87 2. 87
27/s-16 or 2. 875-16	UN	2A 3A	2. 8628 2. 8622 2. 8645 2. 8639	2. 8733 2. 8739 2. 8750 2. 8756	2. 83270 2. 83245 2. 83440 2. 83415	2. 8542 2. 8536 2. 8573 2. 8567	2. 8733 2. 8739 2. 8750 2. 8756	2. 82710 2. 82735 2. 83020 2. 83045	2. 82710 2. 82685 2. 83020 2. 82995	2. 8733 2. 8739 2. 8750 2. 8756	2. 87 2. 87 2. 87 2. 87
27/8–20 or 2. 875–20	UN	2A 3A	2. 8644 2. 8639 2. 8660 2. 8655	2. 8734 2. 8739 2. 8750 2. 8755	2. 8409 2. 8407 2. 8425 2. 8423	2. 8574 2. 8569 2. 8603 2. 8598	2. 8732 2. 8737 2. 8750 2. 8755	2. 8357 2. 8359 2. 8386 2. 8388	2. 8357 2. 8355 2. 8386 2. 8384	2. 8734 2. 8739 2. 8750 2. 8755	2. 87 2. 87 2. 87 2. 87
3–4 or 3. 000–4	UNC	1A 2A 3A	2. 9687 2. 9678 2. 9687 2. 9678 2. 9719 2. 9710	2. 9968 2. 9977 2. 9968 2. 9977 3. 0000 3. 0009	2. 83440 2. 83415 2. 83440 2. 83415 2. 83760 2. 83735	2. 9266 2. 9257 2. 9320 2. 9311 2. 9379 2. 9370	2. 9968 2. 9977 2. 9968 2. 9977 3. 0000 3. 0009	2. 81830 2. 81855 2. 82370 2. 82395 2. 82960 2. 82985	2. 81830 2. 81805 2. 82370 2. 82345 2. 82960 2. 82935	2. 9968 2. 9977 2. 9968 2. 9977 3. 0000 3. 0009	2. 99 2. 99 2. 99 2. 99 3. 00 3. 00
3–6 or 3. 000–6	UN	2A 3A	2. 9762 2. 9754 2. 9790 2. 9782	2. 9972 2. 9980 3. 0000 3. 0008	2. 88890 2. 88865 2. 89170 2. 89145	2. 9518 2. 9510 2. 9569 2. 9561	2. 9972 2. 9980 3. 0000 3. 0008	2. 87960 2. 87985 2. 88470 2. 88495	2. 87960 2. 87935 2. 88470 2. 88445	2. 9972 2. 9980 3. 0000 3. 0008	2. 99 2. 99 3. 00 3. 00
3-8 or 3. 000-8	UN	2A 3A	2. 9803 2. 9796 2. 9829 2. 9822	2. 9974 2. 9981 3. 0000 3. 0007	2. 91620 2. 91595 2. 91880 2. 91855	2. 9618 2. 9611 2. 9665 2. 9658	2. 9974 2. 9981 3. 0000 3. 0007	2. 90770 2. 90795 2. 91240 2. 91265	2. 90770 2. 90745 2. 91240 2. 91215	2. 9974 2. 9981 3. 0000 3. 0007	2. 99 2. 99 3. 00 3. 00
3-12 or 3. 000-12	UN	2A 3A	2. 9852 2. 9846 2. 9871 2. 9865	2. 9981 2. 9987 3. 0000 3. 0006	2. 94400 2. 94375 2. 94590 2. 94565	2. 9738 2. 9732 2. 9773 2. 9767	2. 9981 2. 9987 3. 0000 3. 0006	2. 93770 2. 93795 2. 94120 2. 94145	2. 93770 2. 93745 2. 94120 2. 94095	2. 9981 2. 9987 3. 0000 3. 0006	2. 99 2. 99 3. 00 3. 00

Table III.13.—Setting plug gages, Unified screw threads—Continued

					W tru	ncated setting	g plugs			Basic-crest	setting plugs
			Plug fo	r GO thread	l gage •	Plug fo	r LO or NO	T GO thread	l gage ^a	Major o	liameter
Nominal size and threads per inch	Series des- ignation	Class	Major d	lameter	Pitch diameter	Major d	lameter	Pitch d	lameter	Plug for GO thread gage	Plug for LO or NOT GO thread gage
			Truncated	Full		Truncated	Full	Plus toler- ance gage	Minus tolerance gage	W and X tolerances	W and X tolerances
1	2	3	4	5	6	7	8	9	10	11	12
3-16 or 3.000-16	UN	2A 3A	in. 2. 9878 2. 9872 2. 9895 2. 9889	in. 2. 9983 2. 9989 3. 0000 3. 0006	in. 2. 95770 2. 95745 2. 95940 2. 95915	in. 2. 9792 2. 9786 2. 9823 2. 9817	in. 2. 9983 2. 9989 3. 0000 3. 0006	in. 2. 95210 2. 95235 2. 95520 2. 95545	in. 2. 95210 2. 95185 2. 95520 2. 95495	in. 2.9983 2.9989 3.0000 3.0006	in. 2. 9985 2. 9985 3. 6000 3. 0006
3-20 or 3.000-20	UN	2A 3A	2. 9894 2. 9889 2. 9910 2. 9905	2. 9984 2. 9989 3. 0000 3. 0005	2. 9659 2. 9657 2. 9675 2. 9673	2. 9824 2. 9819 2. 9853 2. 9848	2. 9982 2. 9987 3. 0000 3. 0005	2. 9607 2. 9609 2. 9636 2. 9638	2, 9607 2, 9605 2, 9636 2, 9634	2, 9984 2, 9989 3, 0000 3, 0005	2. 9982 2. 9987 3. 0000 3. 0005
3½-6 or 3.125-6	UN	2A 3A	3. 1012 3. 1004 3. 1040 3. 1032	3. 1222 3. 1230 3. 1250 3. 1258	3. 01390 3. 01365 3. 01670 3. 01645	3. 0767 3. 0759 3. 0819 3. 0811	3. 1222 3. 1230 3. 1250 3. 1258	3. 00450 3. 00475 3. 00970 3. 00995	3. 00450 3. 00425 3. 00970 3. 00945	3. 1222 3. 1230 3. 1250 3. 1258	3. 1222 3. 1230 3. 1250 3. 1258
314-8 or 3.125-8	UN	2A 3A	3. 1053 3. 1046 3. 1079 3. 1072	3. 1224 3. 1231 3. 1250 3. 1257	3. 04120 3. 04095 3. 04380 3. 04355	3. 0867 3. 0860 3. 0915 3. 0908	3. 1224 3. 1231 3. 1250 3. 1257	3. 03260 3. 03285 3. 03740 3. 03765	3. 03260 3. 03235 3. 03740 3. 03715	3. 1224 3. 1231 3. 1250 3. 1257	3. 1224 3. 1231 3. 1250 3. 1257
3½-12 or 3. 125-12	UN	2A 3A	3. 1102 3. 1096 3. 1121 3. 1115	3. 1231 3. 1237 3. 1250 3. 1256	3. 06900 3. 06875 3. 07090 3. 07065	3. 0988 3. 0982 3. 1023 3. 1017	3. 1231 3. 1237 3. 1250 3. 1256	3. 06270 3. 06295 3. 06620 3. 06645	3. 06270 3. 06245 3. 06620 3. 06595	3. 1231 3. 1237 3. 1250 3. 1256	3. 1231 3. 1237 3. 1250 3. 1256
3½-16 or 3.125-16	UN	2A 3A	3. 1128 3. 1122 3. 1145 3. 1139	3. 1233 3. 1239 3. 1250 3. 1256	3. 08270 3. 08245 3. 08440 3. 08415	3. 1042 3. 1036 3. 1073 3. 1067	3. 1233 3. 1239 3. 1250 3. 1256	3. 07710 3. 07735 3. 08020 3. 08045	3. 07710 3. 07685 3. 08020 3. 07995	3. 1233 3. 1239 3. 1250 3. 1256	3. 1233 3. 1239 3. 1250 3. 1256
3½-4 or 3. 250-4	UNC	1A 2A 3A	3. 2186 3. 2177 3. 2186 3. 2177 3. 2219 3. 2210	3. 2467 3. 2476 3. 2467 3. 2476 3. 2500 3. 2509	3. 08430 3. 08405 3. 08430 3. 08405 3. 08760 3. 08735	3. 1763 3. 1754 3. 1817 3. 1808 3. 1877 3. 1868	3. 2467 3. 2476 3. 2467 3. 2476 3. 2500 3. 2509	3. 06800 3. 06825 3. 07340 3. 07365 3. 07940 3. 07965	3. 06800 3. 06775 3. 07340 3. 07315 3. 07940 3. 07915	3. 2467 3. 2476 3. 2467 3. 2476 3. 2500 3. 2509	3. 2467 3. 2476 3. 2467 3. 2476 3. 2500 3. 2500
3½-6 or 3. 250-6	UN	2A 3A	3. 2262 3. 2254 3. 2290 3. 2282	3. 2472 3. 2480 3. 2500 3. 2508	3. 13890 3. 13865 3. 14170 3. 14145	3. 2016 3. 2008 3. 2068 3. 2060	3. 2472 3. 2480 3. 2500 3. 2508	3. 12940 3. 12965 3. 13460 3. 13485	3. 12940 3. 12915 3. 13460 3. 13435	3. 2472 3. 2480 3. 2500 3. 2508	3. 2472 3. 2480 3. 2500 3. 2508
3½-8 or 3. 250-8	UN	2A 3A	3. 2303 3. 2296 3. 2329 3. 2322	3. 2474 3. 2481 3. 2500 3. 2507	3. 16620 3. 16595 3. 16880 3. 16855	3. 2116 3. 2109 3. 2164 3. 2157	3. 2474 3. 2481 3. 2500 3. 2507	3. 15750 3. 15775 3. 16230 3. 16255	3. 15750 3. 15725 3. 16230 3. 16205	3. 2474 3. 2481 3. 2500 3. 2507	3. 2474 3. 2481 3. 2500 3. 2500
3½-12 or 3. 250-12	UN	2A 3A	3. 2352 3. 2346 3. 2371 3. 2365	3. 2481 3. 2487 3. 2500 3. 2506	3. 19400 3. 19375 3. 19590 3. 19565	3. 2238 3. 2232 3. 2273 3. 2267	3. 2481 3. 2487 3. 2500 3. 2506	3. 18770 3. 18795 3. 19120 3. 19145	3. 18770 3. 18745 3. 19120 3. 19095	3. 2481 3. 2487 3. 2500 3. 2506	3. 2481 3. 2487 3. 2500 3. 2500
314-16 or 3. 250-16	UN	2A 3A	3. 2378 3. 2372 3. 2395 3. 2389	3. 2483 3. 2489 3. 2500 3. 2506	3. 20770 3. 20745 3. 20940 3. 20915	3. 2292 3. 2286 3. 2323 3. 2317	3. 2483 3. 2489 3. 2500 3. 2506	3. 20210 3. 20235 3. 20520 3. 20545	3. 20210 3. 20185 3. 20520 3. 20495	3. 2483 3. 2489 3. 2500 3. 2506	3. 2483 3. 2489 3. 2500 3. 2506
336-6 or 3.375-6	UN	2A 3A	3. 3511 3. 3503 3. 3540 3. 3532	3. 3721 3. 3729 3. 3750 3. 3758	3. 26380 3. 26355 3. 26670 3. 26645	3. 3265 3. 3257 3. 3317 3. 3309	3. 3721 3. 3729 3. 3750 3. 3758	3. 25430 3. 25455 3. 25950 3. 25975	3. 25430 3. 25405 3. 25950 3. 25925	3. 3721 3. 3729 3. 3750 3. 3758	3. 3721 3. 3729 3. 3750 3. 3758
336-8 or 3.375-8	UN	2A 3A	3. 3553 3. 3546 3. 3579 3. 3572	3. 3724 3. 3731 3. 3750 3. 3757	3. 29120 3. 29095 3. 29380 3. 29355	3. 3365 3. 3358 3. 3413 3. 3406	3. 3724 3. 3731 3. 3750 3. 3757	3. 28240 3. 28265 3. 28720 3. 28745	3. 28240 3. 28215 3. 28720 3. 28695	3. 3724 3. 3731 3. 3750 3. 3757	3. 3724 3. 3731 3. 3750 3. 3757
336–12 or 3. 375–12	UN	2A 3A	3. 3602 3. 3596 3. 3621 3. 3615	3. 3731 3. 3737 3. 3750 3. 3756	3. 31900 3. 31875 3. 32090 3. 32065	3. 3487 3. 3481 3. 3522 3. 3516	3. 3731 3. 3737 3. 3750 3. 3756	3. 31260 3. 31285 3. 31610 3. 31635	3. 31260 3. 31235 3. 31610 3. 31585	3. 3731 3. 3737 3. 3750 3. 3756	3. 3731 3. 3737 3. 3756 3. 3756
3%-16 or 3. 375-16	UN	2A 3A	3. 3628 3. 3622 3. 3645 3. 3639	3. 3733 3. 3739 3. 3750 3. 3756	3. 33270 3. 33245 3. 33440 3. 33415	3. 3540 3. 3534 3. 3572 3. 3566	3. 3733 3. 3739 3. 3750 3. 3756	3. 32690 3. 32715 3. 33010 3. 33035	3. 32690 3. 32665 3. 33010 3. 32985	3. 3733 3. 3739 3. 3750 3. 3756	3. 3733 3. 3739 3. 3750 3. 3756

Table III.13.—Setting plug gages, Unified screw threads—Continued

					W tru	ncated setting	g plugs			Basic-crest	setting plugs
			Plug fo	or GO thread	l gage ø	Plug fo	r LO or NO	T GO thread	gage •	Major (liameter
Nominal size and threads per inch	Series des- ignation	Class	Major d	iameter	Pitch diameter	Major d	iameter	Pitch d	iameter	Plug for GO thread gage	Plug for LO or NOT GO thread gage
			Truncated	Full		Truncated	Full	Plus toler- ance gage	Minus tolerance gage	W and X tolerances	W and X tolerances
1	2	3	4	5	6	7	8	9	10	11	12
3⅓2−4 or 3. 500−4	UNC	1A 2A 3A	in. 3. 4686 3. 4677 3. 4686 3. 4677 3. 4719 3. 4710	in. 3. 4967 3. 4976 3. 4967 3. 4976 3. 5000 3. 5009	in. 3. 33430 3. 33405 3. 33430 3. 33405 3. 33735	in. 3. 4260 3. 4251 3. 4316 3. 4307 3. 4376 3. 4367	in. 3. 4967 3. 4976 3. 4967 3. 4976 3. 5000 3. 5009	in. 3. 31770 3. 31795 3. 32330 3. 32355 3. 32930 3. 32955	in. 3. 31770 3. 31745 3. 32330 3. 32305 3. 32930 3. 32905	in. 3. 4967 3. 4976 3. 4967 3. 4976 3. 5000 3. 5009	in. 3. 4967 3. 4976 3. 4967 3. 4976 3. 5000 3. 5009
3½-6 or 3.500-6	UN	2A 3A	3. 4761 3. 4753 3. 4790 3. 4782	3. 4971 3. 4979 3. 5000 3. 5008	3. 38880 3. 38855 3. 39170 3. 39145	3. 4514 3. 4506 3. 4567 3. 4559	3. 4971 3. 4979 3. 5000 3. 5008	3. 37920 3. 37945 3. 38450 3. 38475	3. 37920 3. 37895 3. 38450 3. 38425	3. 4971 3. 4979 3. 5000 3. 5008	3. 4971 3. 4979 3. 5000 3. 5008
3½-8 or 3. 500-8	UN	2A 3A	3. 4803 3. 4796 3. 4829 3. 4822	3. 4974 3. 4981 3. 5000 3. 5007	3. 41620 3. 41595 3. 41880 3. 41855	3. 4615 3. 4608 3. 4663 3. 4656	3. 4974 3. 4981 3. 5000 3. 5007	3. 40740 3. 40765 3. 41220 3. 41245	3. 40740 3. 40715 3. 41220 3. 41195	3. 4974 3. 4981 3. 5000 3. 5007	3. 4974 3. 4981 3. 5000 3. 5007
3½-12 or 3. 500-12	UN	2A 3A	3. 4852 3. 4846 3. 4871 3. 4865	3. 4981 3. 4987 3. 5000 3. 5006	3. 44400 3. 44375 3. 44590 3. 44565	3. 4737 3. 4731 3. 4772 3. 4766	3. 4981 3. 4987 3. 5000 3. 5006	3. 43760 3. 43785 3. 44110 3. 44135	3. 43760 3. 43735 3. 44110 3. 44085	3. 4981 3. 4987 3. 5000 3. 5006	3. 4981 3. 4987 3. 5000 3. 5006
3½-16 or 3. 500-16	UN	2A 3A	3. 4878 3. 4872 3. 4895 3. 4889	3. 4983 3. 4989 3. 5000 3. 5006	3. 45770 3. 45745 3. 45940 3. 45915	3. 4790 3. 4784 3. 4822 3. 4816	3. 4983 3. 4989 3. 5000 3. 5006	3. 45190 3. 45215 3. 45510 3. 45535	3. 45190 3. 45165 3. 45510 3. 45485	3. 4983 3. 4989 3. 5000 3. 5006	3. 4983 3. 4989 3. 5000 3. 5006
35%-6 or 3, 625-6	UN	2A 3A	3. 6011 3. 6003 3. 6040 3. 6032	3. 6221 3. 6229 3. 6250 3. 6258	3. 51380 3. 51355 3. 51670 3. 51645	3. 5763 3. 5755 3. 5816 3. 5808	3. 6221 3. 6229 3. 6250 3. 6258	3. 50410 3. 50435 3. 50940 3. 50965	3. 50410 3. 50385 3. 50940 3. 50915	3. 6221 3. 6229 3. 6250 3. 6258	3. 6221 3. 6229 3. 6250 3. 6258
35/6-8 or 3. 625-8	UN	2A 3A	3. 6052 3. 6045 3. 6079 3. 6072	3. 6223 3. 6230 3. 6250 3. 6257	3. 54110 3. 54085 3. 54380 3. 54355	3. 5863 3. 5856 3. 5912 3. 5905	3. 6223 3. 6230 3. 6250 3. 6257	3. 53220 3. 53245 3. 53710 3. 53735	3. 53220 3. 53195 3. 53710 3. 53685	3. 6223 3. 6230 3. 6250 3. 6257	3. 6223 3. 6230 3. 6250 3. 6257
35%-12 or 3. 625-12	UN	2A 3A	3. 6102 3. 6096 3. 6121 3. 6115	3. 6231 3. 6237 3. 6250 3. 6256	3. 56900 3. 56875 3. 57090 3. 57065	3. 5987 3. 5981 3. 6022 3. 6016	3. 6231 3. 6237 3. 6250 3. 6256	3. 56260 3. 56285 3. 56610 3. 56635	3. 56260 3. 56235 3. 56610 3. 56585	3. 6231 3. 6237 3. 6250 3. 6256	3. 6231 3. 6237 3. 6250 3. 6256
35%-16 or 3. 625-16	UN	2A 3A	3. 6128 3. 6122 3. 6145 3. 6139	3. 6233 3. 6239 3. 6250 3. 6256	3. 58270 3. 58245 3. 58440 3. 58415	3. 6040 3. 6034 3. 6072 3. 6066	3. 6233 3. 6239 3. 6250 3. 6256	3. 57690 3. 57715 3. 58010 3. 58035	3. 57690 3. 57665 3. 58010 3. 57985	3. 6233 3. 6239 3. 6250 3. 6256	3. 6233 3. 6239 3. 6250 3. 6256
3¾-4 or 3. 750-4	UNC	1A 2A 3A	3. 7185 3. 7176 3. 7185 3. 7176 3. 7219 3. 7210	3. 7466 3. 7475 3. 7466 3. 7475 3. 7500 3. 7509	3. 58420 3. 58395 3. 58420 3. 58395 3. 58760 3. 58735	3. 6757 3. 6748 3. 6813 3. 6804 3. 6875 3. 6866	3. 7466 3. 7475 3. 7466 3. 7475 3. 7500 3. 7509	3. 56740 3. 56765 3. 57300 3. 57325 3. 57920 3. 57945	3. 56740 3. 56715 3. 57300 3. 57275 3. 57920 3. 57895	3. 7466 3. 7475 3. 7466 3. 7475 3. 7500 3. 7509	3. 7466 3. 7475 3. 7466 3. 7475 3. 7500 3. 7509
3¾-6 or 3.750-6	UN	2A 3A	3. 7261 3. 7253 3. 7290 3. 7282	3. 7471 3. 7479 3. 7500 3. 7508	3. 63880 3. 63855 3. 64170 3. 64145	3. 7012 3. 7004 3. 7066 3. 7058	3. 7471 3. 7479 3. 7500 3. 7508	3. 62900 3. 62925 3. 63440 3. 63465	3. 62900 3. 62875 3. 63440 3. 63415	3. 7471 3. 7479 3. 7500 3. 7508	3. 7471 3. 7479 3. 7500 3. 7508
334-8 or 3.750-8	UN	2A 3A	3. 7302 3. 7295 3. 7329 3. 7322	3. 7473 3. 7480 3. 7500 3. 7507	3. 66610 3. 66585 3. 66880 3. 66855	3. 7112 3. 7105 3. 7162 3. 7155	3. 7473 3. 7480 3. 7500 3. 7507	3. 65710 3. 65735 3. 66210 3. 66235	3. 65710 3. 65685 3. 66210 3. 66185	3. 7473 3. 7480 3. 7500 3. 7507	3. 7473 3. 7480 3. 7500 3. 7507
3¾-12 or 3. 750-12	UN	2A 3A	3. 7352 3. 7346 3. 7371 3. 7365	3. 7481 3. 7487 3. 7500 3. 7506	3. 69400 3. 69375 3. 69590 3. 69565	3. 7237 3. 7231 3. 7272 3. 7266	3. 7481 3. 7487 3. 7500 3. 7506	3. 68760 3. 68785 3. 69110 3. 69135	3. 68760 3. 68735 3. 69110 3. 69085	3. 7481 3. 7487 3. 7500 3. 7506	3. 7481 3. 7487 3. 7500 3. 7506
3¾-16 or 3. 750-16	UN	2A 3A	3. 7378 3. 7372 3. 7395 3. 7389	3. 7483 3. 7489 3. 7500 3. 7506	3. 70770 3. 70745 3. 70940 3. 76915	3. 7290 3. 7284 3. 7322 3. 7316	3. 7483 3. 7489 3. 7500 3. 7506	3. 70190 3. 70215 3. 70510 3. 70535	3. 70190 3. 70165 3. 70510 3. 70485	3. 7483 3. 7489 3. 7500 3. 7506	3. 7483 3. 7489 3. 7500 3. 7506
37/4-6 or 3. 875-6	UN	2A 3A	3. 8510 3. 8502 3. 8540 3. 8532	3. 8720 3. 8728 3. 8750 3. 8758	3. 76370 3. 76345 3. 76670 3. 76645	3. 8260 3. 8252 3. 8315 3. 8307	3. 8720 3. 8728 3. 8750 3. 8758	3. 75380 3. 75405 3. 75930 3. 75955	3, 75380 3, 75355 3, 75930 3, 75905	3. 8720 3. 8728 3. 8750 3. 8758	3, 8720 3, 8728 3, 8750 3, 8758

Table III.13.—Setting plug gages, Unified screw threads—Continued

					W tru	ncated setting	plugs			Basic-crest	setting plugs
			Plug fo	r GO thread	gage •	Plug for	LO or NO	T GO thread	gage •	Major	liameter
Nominal size and threads per inch	Series des- ignation	Class	Major d	lameter	Pitch diameter	Major di	lameter	Pitch d	iameter	Plug for GO thread gage	Plug for LO or NOT GO thread gage
			Truncated	Full		Truncated	Full	Plus toler- ance gage	Minus tolerance gage	W and X tolerances	W and X tolerances
1	2	3	4	5	6	7	8	9	10	11	12
37%-8 or 3. 875-8	UN	2A 3A	in. 3. 8552 3. 8545 3. 8579 3. 8572	in. 3. 8723 3. 8730 3. 8750 3. 8757	in. 3. 79110 3. 79085 3. 79380 3. 79355	in. 3. 8361 3. 8354 3. 8411 3. 8404	in. 3. 8723 3. 8730 3. 8756 3. 8757	in. 3. 78200 3. 78225 3. 78700 3. 78725	in. 3. 78200 3. 78175 3. 78700 3. 78675	in. 3. 8723 3. 8730 3. 8750 3. 8757	in. 3. 872 3. 873 3. 875 3. 875
37.4–12 or 3. 875–12	UN	2A 3A	3. 8601 3. 8595 3. 8621 3. 8615	3. 8730 3. 8736 3. 8750 3. 8756	3. 81890 3. 81865 3. 82090 3. 82065	3. 8485 3. 8479 3. 8521 3. 8515	3. 8730 3. 8736 3. 8750 3. 8756	3. 81240 3. 81265 3. 81606 3. 81625	3. 81240 3. 81215 3. 81600 3. 81575	3. 8730 3. 8736 3. 8750 3. 8756	3, 873 3, 873 3, 875 3, 875
37⁄4–16 or 3. 875–16	UN	2A 3A	3. 8627 3. 8621 3. 8645 3. 8639	3. 8732 3. 8738 3. 8750 3. 8756	3. 83260 3. 83235 3. 83440 3. 83415	3. 8538 3. 8532 3. 8571 3. 8565	3. 8732 3. 8738 3. 8750 3. 8756	3. 82670 3. 82695 3. 83000 3. 83025	3. 82670 3. 82645 3. 83000 3. 82975	3. 8732 3. 8738 3. 8750 3. 8756	3. 873 3. 873 3. 875 3. 875
4-4 or 4. 000-4	UNC	1A 2A 3A	3. 9685 3. 9676 3. 9685 3. 9676 3. 9719 3. 9710	3. 9966 3. 9975 3. 9966 3. 9975 4. 0000 4. 0009	3. 83420 3. 83395 3. 83420 3. 83395 3. 83760 3. 83735	3. 9255 3. 9246 3. 9312 3. 9303 3. 9374 3. 9365	3. 9966 3. 9975 3. 9966 3. 9975 4. 0000 4. 0009	3. 81720 3. 81745 3. 82290 3. 82315 3. 82910 3. 82935	3. 81720 3. 81695 3. 82290 3. 82265 3. 82910 3. 82885	3. 9966 3. 9975 3. 9966 3. 9975 4. 0000 4. 0009	3. 996 3. 997 3. 996 3. 997 4. 000 4. 000
4-6 or 4. 000-6	UN	2A 3A	3. 9760 3. 9752 3. 9790 3. 9782	3. 9970 3. 9978 4. 0000 4. 0008	3. 88870 3. 88845 3. 89170 3. 89145	3. 9510 3. 9502 3. 9565 3. 9557	3. 9970 3. 9978 4. 0000 4. 0008	3. 87880 3. 87905 3. 88430 3. 88455	3. 87880 3. 87855 3. 88430 3. 88405	3. 9970 3. 9978 4. 0000 4. 0008	3. 997 3. 997 4. 000 4 000
4-8 or 4. 000-8	UN	2A 3A	3. 9802 3. 9795 3. 9829 3. 9822	3. 9973 3. 9980 4. 0000 4. 0007	3. 91610 3. 91585 3. 91880 3. 91855	3. 9611 3. 9604 3. 9661 3. 9654	3. 9973 3. 9980 4. 0000 4. 0007	3. 90700 3. 90725 3. 91200 3. 91225	3. 90700 3. 90675 3. 91200 3. 91175	3. 9973 3. 9980 4. 0000 4. 0007	3. 997 3. 998 4. 000 4. 000
4-12 or 4. 000-12	UN	2A 3A	3. 9851 3. 9845 3. 9871 3. 9865	3. 9980 3. 9986 4. 0000 4. 0006	3. 94390 3. 94365 3. 94590 3. 94565	3. 9735 3. 9729 3. 9771 3. 9765	3. 9980 3. 9986 4. 0000 4. 0006	3. 93740 3. 93765 3. 94100 3. 94125	3. 93740 3. 93715 3. 94106 3. 94075	3. 9980 3. 9986 4. 0000 4. 0006	3. 998 3. 998 4. 060 4. 000
4-16 or 4. 000-16	UN	2A 3A	3. 9877 3. 9871 3. 9895 3. 9889	3. 9982 3. 9988 4. 0000 4. 0006	3. 95760 3. 95735 3. 95940 3. 95915	3. 9788 3. 9782 3. 9821 3. 9815	3. 9982 3. 9988 4. 0000 4. 0006	3. 95170 3. 95195 3. 95500 3. 95525	3. 95170 3. 95145 3. 95500 3. 95475	3. 9982 3. 9988 4. 0000 4. 0006	3. 998 3. 998 4. 000 4. 000
4½~6 or 4. 125–6	UN	2A 3A	4. 1010 4. 0997 4. 1040 4. 1027	4. 1220 4. 1233 4. 1250 4. 1263	4. 0137 4. 0134 4. 0167 4. 0164	4. 0759 4. 0746 4. 0814 4. 0801	4. 1220 4. 1233 4. 1250 4. 1263	4. 0037 4. 0040 4. 0092 4. 0095	4. 0037 4. 0034 4. 0092 4. 0089	4. 1220 4. 1233 4. 1250 4. 1263	4. 122 4. 123 4. 125 4. 126
4½-12 or 4. 125-12	UN	2A 3A	4. 1101 4. 1092 4. 1121 4. 1112	4. 1230 4. 1239 4. 1250 4. 1259	4. 0689 4. 0686 4. 0709 4. 0706	4. 0985 4. 0976 4. 1021 4. 1012	4. 1230 4. 1239 4. 1250 4. 1259	4. 0624 4. 0627 4. 0660 4. 0663	4. 0624 4. 0621 4. 0660 4. 0657	4. 1230 4. 1239 4. 1250 4. 1259	4. 123 4. 123 4. 125 4. 125
4½-16 or 4. 125-16	UN	2A 3A	4. 1127 4. 1118 4. 1145 4. 1136	4. 1232 4. 1241 4. 1250 4. 1259	4. 0826 4. 0823 4. 0844 4. 0841	4. 1038 4. 1029 4. 1071 4. 1062	4. 1232 4. 1241 4. 1250 4. 1259	4. 0767 4. 0770 4. 0800 4. 0803	4. 0767 4. 0764 4. 0800 4. 0797	4. 1232 4. 1241 4. 1250 4. 1259	4. 123 4. 124 4. 125 4. 125
4½-4 or 4. 250-4	UN	2A 3A	4. 2185 4. 2170 4. 2219 4. 2204	4. 2466 4. 2481 4. 2500 4. 2515	4. 0842 4. 0839 4. 0876 4. 0873	4. 1810 4. 1795 4. 1873 4. 1858	4. 2466 4. 2481 4. 2500 4. 2515	4. 0727 4. 0730 4. 0790 4. 0793	4. 0727 4. 0724 4. 0790 4. 0787	4. 2466 4. 2481 4. 2500 4. 2515	4. 246 4. 248 4. 250 4. 251
4½-6 or 4. 250-6	UN	2A 3A	4. 2260 4. 2247 4. 2290 4. 2277	4. 2470 4. 2483 4. 2500 4. 2513	4. 1387 4. 1384 4. 1417 4. 1414	4. 2008 4. 1995 4. 2064 4. 2051	4. 2470 4. 2483 4. 2500 4. 2513	4. 1286 4. 1289 4. 1342 4. 1345	4. 1286 4. 1283 4. 1342 4. 1339	4. 2470 4. 2483 4. 2500 4. 2513	4. 2470 4. 248 4. 250 4. 251
4½-12 or 4. 250-12	UN	2A 3A	4. 2351 4. 2342 4. 2371 4. 2362	4. 2480 4. 2489 4. 2500 4. 2509	4. 1939 4. 1936 4. 1959 4. 1956	4. 2235 4. 2226 4. 2271 4. 2262	4. 2480 4. 2489 4. 2500 4. 2509	4. 1874 4. 1877 4. 1910 4. 1913	4. 1874 4. 1871 4. 1910 4. 1907	4. 2480 4. 2489 4. 2500 4. 2509	4. 248 4. 248 4. 250 4. 250
4½-16 or 4. 250-16	UN	2A 3A	4. 2377 4. 2368 4. 2395 4. 2386	4. 2482 4. 2491 4. 2500 4. 2509	4. 2076 4. 2073 4. 2094 4. 2091	4. 2288 4. 2279 4. 2321 4. 2312	4. 2482 4. 2491 4. 2500 4. 2509	4. 2017 4. 2020 4. 2050 4. 2053	4. 2017 4. 2014 4. 2050 4. 2047	4. 2482 4. 2491 4. 2500 4. 2509	4. 2482 4. 2491 4. 2500 4. 2500

Table III.13.—Setting plug gages, Unified screw threads—Continued

		IABUE	111.13.—	Security pur	ty yuyes, (ew inteud		ueu		
					W tru	ncated settin	g plugs			Basic-crest	setting plugs
			Plug fo	or GO thread	l gage •	Plug fo	r LO or NO	T GO thread	l gage •	Major	liameter
Nominal size and threads per inch	Series des- ignation	Class	Major d	liameter	Pitch diameter	Major d	lameter	Pitch d	iameter	Plug for GO thread gage	Plug for LO or NOT GO thread gage
			Truncated	Full		Truncated	Full	Plus toler- ance gage	Minus tolerance gage	W and X tolerances	W and X tolerances
1	2	3	4	5	6	7	8	9	10	11	12
4¾-6 or 4. 375-6	UN	2A 3A	in. 4. 3510 4. 3497 4. 3540 4. 3527	in. 4. 3720 4. 3733 4. 3750 4. 3763	in. 4. 2637 4. 2634 4. 2667 4. 2664	in. 4. 3258 4. 3245 4. 3313 4. 3300	in. 4. 3720 4. 3733 4. 3750 4. 3763	in. 4. 2536 4. 2539 4. 2591 4. 2594	in. 4. 2536 4. 2533 4. 2591 4. 2588	in. 4. 3720 4. 3733 4. 3750 4. 3763	in. 4. 3720 4. 3733 4. 3750 4. 3763
436-12 or 4. 375-12	UN	2A 3A	4. 3601 4. 3592 4. 3621 4. 3612	4. 3730 4. 3739 4. 3750 4. 3759	4.3189 4.3186 4.3209 4.3206	4. 3485 4. 3476 4. 3521 4. 3512	4. 3730 4. 3739 4. 3750 4. 3759	4. 3124 4. 3127 4. 3160 4. 3163	4. 3124 4. 3121 4. 3160 4. 3157	4. 3730 4. 3739 4. 3750 4. 3759	4. 3730 4. 3739 4. 3750 4. 3759
436–16 or 4.375–16	UN	2A 3A	4. 3627 4. 3618 4. 3645 4. 3636	4. 3732 4. 3741 4. 3750 4. 3759	4. 3326 4. 3323 4. 3341 4. 3341	4. 3538 4. 3529 4. 3571 4. 3562	4. 3732 4. 3741 4. 3750 4. 3759	4. 3267 4. 3270 4. 3300 4. 3303	4. 3267 4. 3264 4. 3300 4. 3297	4. 3732 4. 3741 4. 3750 4. 3759	4. 3732 4. 3741 4. 3750 4. 3759
4½-4 or 4.500-4	UN	2A 3A	4. 4684 4. 4669 4. 4719 4. 4704	4. 4965 4. 4980 4. 5000 4. 5015	4. 3341 4. 3338 4. 3376 4. 3373	4. 4308 4. 4293 4. 4372 4. 4357	4. 4965 4. 4980 4. 5000 4. 5015	4. 3225 4. 3228 4. 3289 4. 3292	4. 3225 4. 3222 4. 3289 4. 3286	4. 4965 4. 4980 4. 5000 4. 5015	4. 4965 4. 4980 4. 5000 4. 5015
4½-6 or 4.500-6	UN	2A 3A	4. 4759 4. 4746 4. 4790 4. 4777	4. 4969 4. 4982 4. 5000 4. 5013	4. 3886 4. 3883 4. 3917 4. 3914	4. 4506 4. 4493 4. 4562 4. 4549	4. 4969 4. 4982 4. 5000 4. 5013	4. 3784 4. 3787 4. 3840 4. 3843	4. 3784 4. 3781 4. 3840 4. 3837	4. 4969 4. 4982 4. 5000 4. 5013	4. 4969 4. 4982 4. 5000 4. 5013
4½-12 or 4. 500-12	UN	2A 3A	4. 4851 4. 4842 4. 4871 4. 4862	4. 4980 4. 4989 4. 5000 4. 5009	4. 4439 4. 4436 4. 4459 4. 4456	4. 4735 4. 4726 4. 4771 4. 4762	4. 4980 4. 4989 4. 5000 4. 5009	4. 4374 4. 4377 4. 4410 4. 4413	4. 4374 4. 4371 4. 4410 4. 4407	4. 4980 4. 4989 4. 5000 4. 5009	4. 4980 4. 4989 4. 5000 4. 5009
4½-16 or 4. 500-16	UN	2A 3A	4. 4877 4. 4868 4. 4895 4. 4886	4. 4982 4. 4991 4. 5000 4. 5009	4. 4576 4. 4573 4. 4594 4. 4591	4. 4788 4. 4779 4. 4821 4. 4812	4. 4982 4. 4991 4. 5000 4. 5009	4. 4517 4. 4520 4. 4550 4. 4553	4. 4517 4. 4514 4. 4550 4. 4547	4. 4982 4. 4991 4. 5000 4. 5009	4. 4982 4. 4991 4. 5000 4. 5009
45%-6 or 4. 625-6	UN	2A 3A	4. 6009 4. 5996 4. 6040 4. 6027	4. 6219 4. 6232 4. 6250 4. 6263	4. 5136 4. 5133 4. 5167 4. 5164	4. 5755 4. 5742 4. 5812 4. 5799	4. 6219 4. 6232 4. 6250 4. 6263	4. 5033 4. 5036 4. 5090 4. 5093	4. 5033 4. 5030 4. 5090 4. 5087	4. 6219 4. 6232 4. 6250 4. 6263	4. 6219 4. 6232 4. 6250 4. 6263
45%-12 or 4. 625-12	UN	2A 3A	4.6101 4.6092 4.6121 4.6112	4. 6230 4. 6239 4. 6250 4. 6259	4. 5689 4. 5686 4. 5709 4. 5706	4. 5983 4. 5974 4. 6020 4. 6011	4. 6230 4. 6239 4. 6250 4. 6259	4. 5622 4. 5625 4. 5659 4. 5662	4. 5622 4. 5619 4. 5659 4. 5656	4. 6230 4. 6239 4. 6250 4. 6259	4. 6230 4. 6239 4. 6250 4. 6259
45%-16 or 4. 625-16	UN	2A 3A	4. 6127 4. 6118 4. 6145 4. 6136	4. 6232 4. 6241 4. 6250 4. 6259	4. 5826 4. 5823 4. 5844 4. 5841	4. 6036 4. 6027 4. 6070 4. 6061	4. 6232 4. 6241 4. 6250 4. 6259	4. 5765 4. 5768 4. 5799 4. 5802	4. 5765 4. 5762 4. 5799 4. 5796	4. 6232 4. 6241 4. 6250 4. 6259	4. 6232 4. 6241 4. 6250 4. 6259
4¾-4 or 4. 750-4	UN	2A 3A	4.7184 4.7169 4.7219 4.7204	4.7465 4.7480 4.7500 4.7515	4. 5841 4. 5838 4. 5876 4. 5873	4. 6807 4. 6792 4. 6871 4. 6856	4. 7465 4. 7480 4. 7500 4. 7515	4. 5724 4. 5727 4. 5788 4. 5791	4.5724 4.5721 4.5788 4.5785	4. 7465 4. 7480 4. 7500 4. 7515	4. 7465 4. 7480 4. 7500 4. 7515
4¾-6 or 4.750-6	UN	2A 3A	4. 7259 4. 7246 4. 7290 4. 7277	4. 7469 4. 7482 4. 7500 4. 7513	4. 6386 4. 6383 4. 6417 4. 6414	4. 7005 4. 6992 4. 7062 4. 7049	4.7469 4.7482 4.7500 4.7513	4. 6283 4. 6286 4. 6340 4. 6343	4. 6283 4. 6280 4. 6340 4. 6337	4. 7469 4. 7482 4. 7500 4. 7513	4. 7469 4. 7482 4. 7500 4. 7513
4¾-12 or 4. 750-12	UN	2A 3A	4. 7351 4. 7342 4. 7371 4. 7362	4. 7480 4. 7489 4. 7500 4. 7509	4. 6939 4. 6936 4. 6959 4. 6956	4.7233 4.7224 4.7270 4.7261	4.7480 4.7489 4.7500 4.7509	4. 6872 4. 6875 4. 6909 4. 6912	4. 6872 4. 6869 4. 6909 4. 6906	4. 7480 4. 7489 4. 7500 4. 7509	4. 7480 4. 7489 4. 7500 4. 7509
4¾-16 or 4.750-16	UN	2A 3A	4.7377 4.7368 4.7395 4.7386	4.7482 4.7491 4.7500 4.7509	4. 7076 4. 7073 4. 7094 4. 7091	4.7286 4.7277 4.7320 4.7311	4.7482 4.7491 4.7500 4.7509	4. 7015 4. 7018 4. 7049 4. 7052	4. 7015 4. 7012 4. 7049 4. 7046	4.7482 4.7491 4.7500 4.7509	4. 7482 4. 7491 4. 7500 4. 7509
47%-6 or 4. 875-6	UN	2A 3A	4. 8509 4. 8496 4. 8540 4. 8527	4. 8719 4. 8732 4. 8750 4. 8763	4. 7636 4. 7633 4. 7667 4. 7664	4.8254 4.8241 4.8311 4.8298	4. 8719 4. 8732 4. 8750 4. 8763	4. 7532 4. 7535 4. 7589 4. 7592	4. 7532 4. 7529 4. 7589 4. 7586	4. 8719 4. 8732 4. 8750 4. 8763	4. 8719 4. 8732 4. 8750 4. 8763
47%-12 or 4. 875-12	UN	2A 3A	4. 8601 4. 8592 4. 8621 4. 8612	4. 8730 4. 8739 4. 8750 4. 8759	4. 8189 4. 8186 4. 8209 4. 8206	4. 8483 4. 8474 4. 8520 4. 8511	4. 8730 4. 8739 4. 8750 4. 8759	4. 8122 4. 8125 4. 8159 4. 8162	4. 8122 4. 8119 4. 8159 4. 8156	4. 8730 4. 8739 4. 8750 4. 8759	4. 8730 4. 8739 4. 8750 4. 8759

					W tru	ncated setting	g plugs			Basic-crest	setting plug
			Plug fo	r GO thread	l gage •	Plug fo	r LO or NO	T GO thread	gage 4	Major	liameter
Nominal size and threads per inch	Series des- ignation	Class	Major d	iameter	Pitch diameter	Major d	liameter	Pitch d	iameter	Plug for GO thread gage	Plug for LO or NOT GO thread gage
			Truncated	Full		Truncated	Full	Plus toler- ance gage	Minus tolerance gage	W and X tolerances	W and X tolerances
1	2	3	4	5	6	7	8	9	10	11	12
47%-16 or 4. 875-16	UN	2A 3A	in. 4.8627 4.8618 4.8645 4.8636	in. 4. 8732 4. 8741 4. 8750 4. 8759	in. 4. 8326 4. 8323 4. 8344 4. 8341	in. 4. 8536 4. 8527 4. 8570 4. 8561	in. 4. 8732 4. 8741 4. 8750 4. 8759	in. 4. 8265 4. 8268 4. 8299 4. 8302	in. 4. 8265 4. 8262 4. 8299 4. 8296	in. 4. 8732 4. 8741 4. 8750 4. 8759	in. 4. 873: 4. 874: 4. 875: 4. 875:
5-4 or 5. 000-4	UN	2A 3A	4. 9683 4. 9668 4. 9719 4. 9704	4. 9964 4. 9979 5. 0000 5. 0015	4. 8340 4. 8337 4. 8376 4. 8373	4. 9304 4. 9289 4. 9370 4. 9355	4. 9964 4. 9979 5. 0000 5. 0015	4. 8221 4. 8224 4. 8287 4. 8290	4. 8221 4. 8218 4. 8287 4. 8284	4. 9964 4. 9979 5. 0000 5. 0015	4. 996 4. 997 5. 000 5. 001
5-6 or 5. 000-6	UN	2A 3A	4. 9759 4. 9746 4. 9790 4. 9777	4. 9969 4. 9982 5. 0000 5. 0013	4. 8886 4. 8883 4. 8917 4. 8914	4. 9503 4. 9490 4. 9561 4. 9548	4. 9969 4. 9982 5. 0000 5. 0013	4. 8781 4. 8784 4. 8839 4. 8842	4. 8781 4. 8778 4. 8839 4. 8836	4. 9969 4. 9982 5. 0000 5. 0013	4. 9969 4. 9982 5. 0000 5. 0013
5-12 or 5. 000-12	UN	2A 3A	4. 9851 4. 9842 4. 9871 4. 9862	4. 9980 4. 9989 5. 0000 5. 0009	4. 9439 4. 9436 4. 9459 4. 9456	4. 9733 4. 9724 4. 9770 4. 9761	4, 9980 4, 9989 5, 0000 5, 0009	4. 9372 4. 9375 4. 9409 4. 9412	4. 9372 4. 9369 4. 9409 4. 9406	4. 9980 4. 9989 5. 0000 5. 0009	4. 9980 4. 9989 5. 0000 5. 0000
5-16 or 5. 000-16	UN	2A 3A	4. 9877 4. 9868 4. 9895 4. 9886	4. 9982 4. 9991 5. 0000 5. 0009	4. 9576 4. 9573 4. 9594 4. 9591	4. 9786 4. 9777 4. 9820 4. 9811	4. 9982 4. 9991 5. 0000 5. 0009	4. 9515 4. 9518 4. 9549 4. 9552	4. 9515 4. 9512 4. 9549 4. 9546	4. 9982 4. 9991 5. 0000 5. 0009	4. 998 4. 999 5. 0000 5. 0000
51/6-12 or 5. 125-12	UN	2A 3A	5. 1101 5. 1092 5. 1121 5. 1112	5. 1230 5. 1239 5. 1250 5. 1259	5. 0689 5. 0686 5. 0709 5. 0706	5. 0983 5. 0974 5, 1020 5. 1011	5, 1230 5, 1239 5, 1250 5, 1259	5. 0622 5. 0625 5. 0659 5. 0662	5. 0622 5. 0619 5. 0659 5. 0656	5. 1230 5. 1239 5. 1250 5. 1259	5, 1230 5, 1230 5, 1250 5, 1250
5½-16 or 5. 125-16	UN	2A 3A	5. 1127 5. 1118 5. 1145 5. 1136	5. 1232 5. 1241 5. 1250 5. 1259	5. 0826 5. 0823 5. 0844 5. 0841	5. 1036 5. 1027 5. 1070 5. 1061	5. 1232 5. 1241 5. 1250 5. 1259	5. 0765 5. 0768 5. 0799 5. 0802	5. 0765 5. 0762 5. 0799 5. 0796	5. 1232 5. 1241 5. 1250 5. 1259	5. 1232 5. 1241 5. 1250 5. 1259
5½-4 or 5. 250-4	UN	2A 3A	5. 2183 5. 2168 5. 2219 5. 2204	5. 2464 5. 2479 5. 2500 5. 2515	5. 0840 5. 0837 5. 0876 5. 0873	5. 1803 5. 1788 5. 1869 5. 1854	5. 2464 5. 2479 5. 2500 5. 2515	5. 0720 5. 0723 5. 0786 5. 0789	5. 0720 5. 0717 5. 0786 5. 0783	5. 2464 5. 2479 5. 2500 5. 2515	5. 2464 5. 2479 5. 2500 5. 2518
5½-12 or 5. 250-12	UN	2A 3A	5. 2351 5. 2342 5. 2371 5. 2362	5. 2480 5. 2489 5. 2500 5. 2509	5. 1939 5. 1936 5. 1959 5. 1956	5. 2233 5. 2224 5. 2270 5. 2261	5. 2480 5. 2489 5. 2500 5. 2509	5. 1872 5. 1875 5. 1909 5. 1912	5. 1872 5. 1869 5. 1909 5. 1906	5. 2480 5. 2489 5. 2500 5. 2509	5. 2480 5. 2489 5. 2500 5. 2509
5¼-16 or 5. 250-16	UN	2A 3A	5. 2377 5. 2368 5. 2395 5. 2386	5. 2482 5. 2491 5. 2500 5. 2509	5. 2076 5. 2073 5. 2094 5. 2091	5. 2286 5. 2277 5. 2320 5. 2311	5. 2482 5. 2491 5. 2500 5. 2509	5. 2015 5. 2018 5. 2049 5. 2052	5. 2015 5. 2012 5. 2049 5. 2046	5. 2482 5. 2491 5. 2500 5. 2509	5. 2482 5. 2491 5. 2500 5. 2509
53%-12 or 5. 375-12	UN	2A 3A	5. 3601 5. 3592 5. 3621 5. 3612	5. 3730 5. 3739 5. 3750 5. 3759	5. 3189 5. 3186 5. 3209 5. 3266	5. 3483 5. 3474 5. 3520 5. 3511	5. 3730 5. 3739 5. 3750 5. 3759	5. 3122 5. 3125 5. 3159 5. 3162	5. 3122 5. 3119 5. 3159 5. 3156	5. 3730 5. 3739 5. 3750 5. 3759	5. 3730 5. 3739 5. 3750 5. 3759
53/6-16 or 5.375-16	UN	2A 3A	5. 3627 5. 3618 5. 3645 5. 3636	5. 3732 5. 3741 5. 3750 5. 3759	5. 3326 5. 3323 5. 3344 5. 3341	5. 3536 5. 3527 5. 3570 5. 3561	5. 3732 5. 3741 5. 3750 5. 3759	5. 3265 5. 3268 5. 3299 5. 3302	5. 3265 5. 3262 5. 3299 5. 3296	5. 3732 5. 3741 5. 3750 5. 3759	5. 3732 5. 3741 5. 3750 5. 3759
5½-4 or 5. 500-4	UN	2A 3A	5. 4683 5. 4668 5. 4719 5. 4704	5. 4964 5. 4979 5. 5000 5. 5015	5. 3340 5. 3337 5. 3376 5. 3373	5, 4302 5, 4287 5, 4368 5, 4353	5. 4964 5. 4979 5. 5000 5. 5015	5. 3219 5. 3222 5. 3285 5. 3288	5. 3219 5. 3216 5. 3285 5. 3282	5. 4964 5. 4979 5. 5000 5. 5015	5. 4964 5. 4979 5. 5000 5. 5009
5½-12 or 5. 500-12	UN	2A 3A	5. 4851 5. 4842 5. 4871 5. 4862	5. 4980 5. 4989 5. 5000 5. 5009	5. 4439 5. 4436 5. 4459 5. 4456	5. 4733 5. 4724 5. 4770 5. 4761	5. 4980 5. 4989 5. 5000 5. 5009	5. 4372 5. 4375 5. 4409 5. 4412	5. 4372 5. 4369 5. 4409 5. 4406	5. 4980 5. 4989 5. 5000 5. 5009	5. 4980 5. 4989 5. 5000 5. 5009
5½-16 or 5. 500-16	UN	2A 3A	5. 4877 5. 4868 5. 4895 5. 4886	5. 4982 5. 4991 5. 5000 5. 5009	5. 4576 5. 4573 5. 4594 5. 4591	5. 4786 5. 4777 5. 4820 5. 4811	5. 4982 5. 4991 5. 5000 5. 5009	5. 4515 5. 4518 5. 4549 5. 4552	5. 4515 5. 4512 5. 4549 5. 4546	5. 4982 5. 4991 5. 5000 5. 5009	5. 4982 5. 4991 5. 5060 5. 5009
55/8-12 or 5. 625-12	UN	2A 3A	5. 6100 5. 6091 5. 6121 5. 6112	5. 6229 5. 6238 5. 6250 5. 6259	5. 5688 5. 5685 5. 5709 5. 5706	5. 5980 5. 5971 5. 6018 5. 6009	5. 6229 5. 6238 5. 6250 5. 6259	5. 5619 5. 5622 5. 5657 5. 5660	5. 5619 5. 5616 5. 5657 5. 5654	5. 6229 5. 6238 5. 6250 5. 6259	5. 6229 5. 6238 5. 6250 5. 6259

					W tru	ncated settin	g plugs			Basic-crest	setting plugs
			Plug for	GO thread	l gage •	Plug fo	or LO or NO	T GO thread	gage •	Major	liameter
Nominal size and threads per inch	Series des- ignation	Class	Major dia	ameter	Pitch diameter	Major d	liameter	Pitch d	iameter	Plug for GO thread gage	Plug for LO or NOT GO thread gage
			Truncated	Full		Truncated	Full	Plus toler- ance gage	Minus tolerance gage	W and X tolerances	W and X tolerances
1	2	3	4	5	6	7	8	9	10	11	12
55%-16 or 5. 625-16	UN	2A 3A	in. 5. 6126 5. 6117 5. 6145 5. 6136	in. 5. 6231 5. 6240 5. 6250 5. 6259	in. 5. 5825 5. 5822 5. 5844 5. 5841	in. 5. 6034 5. 6025 5. 6068 5. 6059	in. 5. 6231 5. 6240 5. 6250 5. 6259	in. 5. 5763 5. 5766 5. 5797 5. 5800	in. 5. 5763 5. 5760 5. 5797 5. 5794	in. 5. 6231 5. 6240 5. 6250 5. 6259	in. 5. 6231 5. 6240 5. 6250 5. 6259
5¾-4 or 5. 750-4	UN	2A 3A	5. 7182 5. 7167 5. 7219 5. 7204	5. 7463 5. 7478 5. 7500 5. 7515	5. 5839 5. 5836 5. 5876 5. 5873	5. 6800 5. 6785 5. 6867 5. 6852	5. 7463 5. 7478 5. 7500 5. 7515	5. 5717 5. 5720 5. 5784 5. 5787	5. 5717 5. 5714 5. 5784 5. 5781	5. 7463 5. 7478 5. 7500 5. 7515	5. 7463 5. 7478 5. 7500 5. 7515
5¾-12 or 5. 750-12	UN	2A 3A	5. 7350 5. 7341 5. 7371 5. 7362	5. 7479 5. 7488 5. 7500 5. 7509	5. 6938 5. 6935 5. 6959 5. 6956	5. 7230 5. 7221 5. 7268 5. 7259	5. 7479 5. 7488 5. 7500 5. 7509	5. 6869 5. 6872 5. 6907 5. 6910	5. 6869 5. 6866 5. 6907 5. 6904	5. 7479 5. 7488 5. 7500 5. 7509	5. 7479 5. 7488 5. 7500 5. 7509
5 ³ 4-16 or 5. 750-16	UN	2A 3A	5. 7376 5. 7367 5. 7395 5. 7386	5. 7481 5. 7490 5. 7500 5. 7509	5. 7075 5. 7072 5. 7094 5. 7091	5. 7284 5. 7275 5. 7318 5. 7309	5. 7481 5. 7490 5. 7500 5. 7509	5. 7013 5. 7016 5. 7047 5. 7050	5. 7013 5. 7010 5. 7047 5. 7044	5. 7481 5. 7490 5. 7500 5. 7509	5. 7481 5. 7490 5. 7500 5. 7509
57%-12 or 5, 875-12	UN	2A 3A	5. 8600 5. 8591 5. 8621 5. 8612	5. 8729 5. 8738 5. 8750 5. 8759	5. 8188 5. 8185 5. 8209 5. 8206	5. 8480 5. 8471 5. 8518 5. 8509	5. 8729 5. 8738 5. 8750 5. 8759	5. 8119 5. 8122 5. 8157 5. 8160	5. 8119 5. 8116 5. 8157 5. 8154	5. 8729 5. 8738 5. 8750 5. 8759	5. 8729 5. 8738 5. 8750 5. 8759
57/6-16 or 5. 875-16	UN	2A 3A	5. 8626 5. 8617 5. 8645 5. 8636	5. 8731 5. 8740 5. 8750 5. 8759	5. 8325 5. 8322 5. 8344 5. 8341	5. 8534 5. 8525 5. 8568 5. 8559	5. 8731 5. 8740 5. 8750 5. 8759	5. 8263 5. 8266 5. 8297 5. 8300	5. 8263 5. 8260 5. 8297 5. 8294	5. 8731 5. 8740 5. 8750 5. 8759	5. 8731 5. 8740 5. 8750 5. 8759
6-4 or 6.000-4	UN	2A 3A	5. 9682 5. 9667 5. 9719 5. 9704	5. 9963 5. 9978 6. 0000 6. 0015	5. 8339 5. 8336 5. 8376 5. 8373	5. 9298 5. 9283 5. 9366 5. 9351	5. 9963 5. 9978 6. 0000 6. 0015	5. 8215 5. 8218 5. 8283 5. 8286	5. 8215 5. 8212 5. 8283 5. 8280	5. 9963 5. 9978 6. 0000 6. 0015	5. 9963 5. 9978 6. 0000 6. 0015
6-12 or 6.000-12	UN	2A 3A	5. 9850 5. 9841 5. 9871 5. 9862	5. 9979 5. 9988 6. 0000 6. 0009	5. 9438 5. 9435 5. 9459 5. 9456	5. 9730 5. 9721 5. 9768 5. 9759	5. 9979 5. 9988 6. 0000 6. 0009	5. 9369 5. 9372 5. 9407 5. 9410	5. 9369 5. 9366 5. 9407 5. 9404	5. 9979 5. 9988 6. 0000 6. 0009	5. 9979 5. 9988 6. 0000 6. 0009
6-16 or 6.000-16	UN	2A 3A	5. 9876 5. 9867 5. 9895 5. 9886	5. 9981 5. 9990 6. 0000 6. 0009	5. 9575 5. 9572 5. 9594 5. 9591	5. 9784 5. 9775 5. 9818 5. 9809	5. 9981 5. 9990 6. 0000 6. 0009	5. 9513 5. 9516 5. 9547 5. 9550	5. 9513 5. 9510 5. 9547 5. 9544	5. 9981 5. 9990 6. 0000 6. 0009	5. 9981 5. 9990 6. 0000 6. 0009

These setting plugs are applicable to thread snap and indicating gages as well as to thread ring gages.

Pitch diameter limits of W basic-crest setting plug gages are given in column 6 of this table. Pitch diameter limits of X basic-crest setting plug gages are given in column 4 of table III.12 in this supplement.

Pitch diameter limits of X basic-crest setting plug gages are given in columns 9 and 10 of this table. Pitch diameter limits of X basic-crest setting plug gages are given in columns 6 and 7 of table III.12 in this supplement.

pp. 69-74, tables III.14 and III.15: These tables have not been revised to include all the sizes shown in table III.2 in this Supplement. The designations in the third column of these tables should be revised as follows:

All designations, not so shown, should be preceded by a "U."

Designations for following sizes should be "UN": %6-28, %-28, 34-28, 1-28, 1\%-20, 1\%-28, $1\frac{1}{4}-20$, $1\frac{1}{2}-20$, $1\frac{3}{4}-16$, $1\frac{3}{4}-20$, 2-16, 2-20, and $2\frac{1}{4}-20$.

Designations for following sizes should be "UNS": $\frac{1}{2}-12$, $2\frac{1}{16}-16$, $2\frac{3}{16}-16$, $2\frac{5}{16}-16$, and $2\frac{7}{16}-16$.

p. 74, 1. Introduction: Add the following sentence at end of the first paragraph: "In table IV.12, p. 92 of this Supplement, are listed selected combinations of Unified special screw threads. Pitch diameter tolerances in this table are based on a length of thread engagement of 9 times the pitch. The pitch diameter limits are applicable to a length of engagement of from 5 to 15 times the pitch. (This should not be confused with the length of thread on mating parts, as it may exceed the length of engagement by a considerable amount.)"

p. 74: Designations in second column on this page should read: 1-10 UNS, 1-15 UNS, .895-26 UNS.

p. 75, 3. Preferred Diameters and Pitches. Revise the first paragraph to read:

"The use, whenever possible, of the sizes of the standard thread series listed in table III.2, p. 6 of this Supplement is recommended for all applications. Whenever sizes and pitches in table III.2 are not suitable, the designer should, if possible, choose a thread from table IV.12, p. 92 of this Supplement, which lists selected combinations of Unified special screw threads. If a selection cannot be made from either table III.2 or IV.12, consideration should be given to the following paragraphs in a choice of thread."

p. 77: In the last line of the second column, change "NC and NF" to "UNC and UNF."

p. 98, 5. Method of Designating: In the first paragraph change "UNS or NS" to "UNS" (line 3), "with or without" to "with" (line 7), "p. 26" to "p. 19 in this Supplement" (last line). Revise second paragraph to read:

"The symbol "UNS" is applicable to any thread, (1) having the basic Unified thread form, (2) with limits based on Unified formulations, and (3) which is not listed in table III.2, p. 6 in this Supplement. Selected combinations of UNS threads are listed in table IV.12, p. 92 of this Supplement."

Delete remainder of 5. Method of Desig-NATING. (Rest of column 2 on p. 98, first column on p. 100 to 6. Directions for Determining

LIMITS OF SIZE OF SPECIAL THREADS.)

p. 99, table IV.12: Substitute the following table for the present table:

Table IV.12.—Selected combinations, Unified special screw threads, UNS

				Exte	rnal ^a							Internal o	•		
Nominal size and threads per inch	Class	Allow-	Major d	iameter	Pi	tch diame	ter	c Minor	Class	Minor o	liameter	Pi	tch diame	ter	Major diameter
			Max b	Min	Max b	Min	Toler- ance	diam- eter		Min	Max	Min	Max	Toler- ance	Min
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
10–28 or . 190–28	2A	in. 0.0010	in. 0. 1890	in. 0. 1825	in. 0. 1658	in. 0. 1625	in. 0. 0033	in. 0. 1452	2B	in. 0. 151	in. 0.160	in. 0.1668	in. 0. 1711	in. 0.0043	in. 0. 1900
10-36 or . 190-36	2A	. 0009	. 1891	. 1836	. 1711	. 1681	. 0030	. 1550	2B	. 160	. 166	. 1720	. 1759	. 0039	. 1900
10-40 or . 190-40	2A	.0009	. 1891	. 1840	. 1729	. 1700	. 0029	. 1584	2B	. 163	. 169	. 1738	. 1775	. 0037	. 1900
10-48 or . 190-48	2A	. 0008	. 1892	. 1847	. 1757	. 1731	. 0026	. 1636	2B	. 167	. 172	. 1765	. 1799	. 0034	. 1900
10-56 or . 190-56	2A	. 0007	. 1893	. 1852	. 1777	. 1752	. 0025	. 1674	2B	. 171	. 175	. 1784	. 1816	. 0032	. 1900
12-36 or . 216-36	2A	. 0009	. 2151	. 2096	. 1971	. 1941	. 0030	. 1810	2B	. 186	. 192	. 1980	. 2019	. 0039	. 2160
12-40 or . 216-40	2A	.0009	. 2151	. 2100	. 1989	. 1960	. 0029	. 1844	2B	. 189	. 195	. 1998	. 2035	. 0037	. 2160
12-48 or . 216-48	2A	.0008	. 2152	. 2107	. 2017	. 1991	. 0026	. 1896	2B	. 193	. 198	. 2025	. 2059	. 0034	. 2160
12-56 or . 216-56	2A	.0007	. 2153	. 2112	. 2037	. 2012	. 0025	. 1934	2B	. 197	. 201	. 2044	. 2076	. 0032	. 2160
½-24 or . 250-24	2A	.0011	. 2489	. 2417	. 2218	. 2181	. 0037	. 1978	2B	. 205	. 215	. 2229	. 2277	. 0048	. 2500
½-27 or . 250-27	2A	. 0010	. 2490	. 2423	. 2249	. 2214	. 0035	. 2036	2B	. 210	. 219	. 2259	. 2304	. 0045	. 2500
½-36 or . 250-36	2A	. 0009	. 2491	. 2436	. 2311	. 2280	.0031	. 2150	2B	. 220	. 226	. 2320	. 2360	.0040	. 2500
½-40 or . 250-40	2A	. 0009	. 2491	. 2440	. 2329	. 2300	. 0029	. 2184	2B	. 223	. 229	. 2338	. 2376	.0038	. 2500
½-48 or . 250-48	2A	. 0008	. 2492	. 2447	. 2357	. 2330	. 0027	. 2236	2B	. 227	. 232	. 2365	. 2401	. 0036	. 2500
½-56 or . 250-56	2A	. 0008	. 2492	. 2451	. 2376	. 2350	. 0026	. 2273	2B	. 231	. 235	. 2384	. 2417	. 0033	. 2500
5/16-27 or . 3125-27	2A	.0010	. 3115	. 3048	. 2874	. 2839	. 0035	. 2661	2B	. 272	. 281	. 2884	. 2929	. 0045	. 3125
5/16-36 or .3125-36	2A	.0009	. 3116	. 3061	. 2936	. 2905	. 0031	. 2775	2B	. 282	. 289	. 2945	. 2985	.0040	. 312
5/16-40 or . 3125-40	2A	. 0009	.3116	. 3065	. 2954	. 2925	. 0029	. 2809	2B	. 285	. 291	. 2963	. 3001	0038	. 312

Table IV.12.—Selected combinations, Unified special screw threads, UNS—Continued

								Poora							
				Exte	rnal ª						:	Internal •			
Nominal size and threads per inch	Class	Allow- ance	Major d	liameter	Pit	ch diame	ter	e Minor	Class	Minor d	iameter	Pit	ch diame	ter	Major diameter
F-1.			Max b	Min	Max b	Min	Toler- ance	diam- eter		Min	Max	Min	Max	Toler- ance	Min
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
5/16-48 or . 3125-48	2A	in. . 0008	in. .3117	in. .3072	in. . 2982	in. . 2955	in. . 0027	in. . 2861	2B	in. . 290	in. . 295	in. . 2990	in. . 3026	in. 0036	in. . 3125
3%-18 or . 375-18	2A	. 0013	. 3737	. 3650	. 3376	. 3333	. 0043	. 3055	2B	. 315	. 328	. 3389	. 3445	. 0056	. 3750
3/6-27 or . 375-27	2A	.0011	. 3739	. 3672	. 3498	. 3462	. 0036	. 3285	2B	. 335	. 344	. 3509	. 3556	.0047	. 3750
3/8-36 or . 375-36	2A	. 0010	. 3740	. 3685	. 3560	. 3528	. 0032	. 3399	2B	. 345	. 352	. 3570	. 3612	.0042	. 3750
3/8-40 or . 375-40	2A	. 0009	. 3741	. 3690	. 3579	. 3548	. 0031	. 3434	2B	. 348	. 354	. 3588	. 3628	. 0040	. 3750
. 390–27	2A	. 0011	. 3889	. 3822	. 3648	. 3612	. 0036	. 3435	2B	. 350	. 359	. 3659	. 3706	. 0047	. 3900
716-18 or . 4375-18	2A	. 0013	. 4362	. 4275	. 4001	. 3958	. 0043	. 3680	2B	. 377	. 390	. 4014	. 4070	. 0056	. 4375
7/16-24 or . 4375-24	2A	. 0011	. 4364	. 4292	. 4093	. 4055	. 0038	. 3853	2B	. 392	. 402	. 4104	. 4153	. 0049	. 4375
7/16-27 or . 4375-27	2A	. 0011	. 4364	. 4297	. 4123	. 4087	. 0036	. 3910	2B	. 397	. 406	. 4134	. 4181	. 0047	. 4375
7/16-36 or . 4375-36	2A	.0011	. 4365	. 4310	. 4185	. 4153	. 0032	. 4024	2B	. 407	. 414	. 4195	. 4237	. 0042	. 4375
7/16-40 or . 4375-40	2A	. 0009	. 4366	. 4315	. 4204	. 4173	. 0031	. 4059	2B	. 410	. 416	. 4213	. 4253	. 0040	. 4375
1/2-12 or . 500-12	2A 3A	. 0016	. 4984	. 4870	. 4443	. 4389	. 0054	. 3962	2B 3B	. 410 . 4100	. 428 . 4223	. 4459	. 4529 . 4511	.0070	. 5000
½-14 or . 500-14	2A	. 0015	. 4985	. 4882	. 4521	. 4471	. 0050	. 4109	2B	. 423	. 438	. 4536	. 4601	. 0065	. 5000
½-18 or . 500–18	2A	. 0013	. 4987	. 4900	. 4626	. 4582	. 0044	. 4305	2B	. 440	. 453	. 4639	. 4697	. 0058	. 5000
½-24 or . 500-24	2A	. 0012	. 4988	. 4916	. 4717	. 4678	. 0039	. 4477	2B	. 455	. 465	. 4729	. 4780	. 0051	. 5000
½-27 or . 500-27	2A	. 0011	. 4989	. 4922	. 4748	. 4711	. 0037	. 4535	2B	. 460	. 469	. 4759	. 4807	. 0048	. 5000
½-36 or . 500–36	2A	. 0010	. 4990	. 4935	. 4810	. 4777	. 0033	. 4649	2B	. 470	. 476	. 4820	. 4863	. 0043	. 5000
½-40 or . 500-40	2A	. 0010	. 4990	. 4939	. 4828	. 4796	. 0032	. 4683	2B	. 473	. 479	. 4838	. 4879	. 0041	. 5000
%16-14 or . 5625-14	2A	. 0015	. 5610	. 5507	. 5146	. 5096	. 0050	. 4734	2B	. 485	. 501	. 5161	. 5226	. 0065	. 5625
%16-27 or . 5625-27	2A	. 0011	. 5614	. 5547	. 5373	. 5336	. 0037	. 5160	2B	. 522	. 531	. 5384	. 5432	. 0048	, 5625
%6-36 or . 5625-36	2A	. 0010	. 5615	. 5560	. 5435	. 5402	. 0033	. 5274	2B	. 532	. 539	. 5445	. 5488	. 0043	. 5625
% 6-40 or . 5625-40	2A	. 0010	. 5615	. 5564	. 5453	. 5421	. 0032	. 5308	2B	. 535	. 541	. 5463	. 5504	. 0041	. 5625
5%-14 or . 625-14	2A	. 0015	. 6235	. 6132	. 5771	. 5720	. 0051	. 5359	2B	. 548	. 564	. 5786	. 5852	. 0066	. 6250
5/6-27 or . 625-27	2A	. 0011	. 6239	. 6172	. 5998	. 5960	. 0038	. 5785	2B	. 585	. 594	. 6009	. 6059	. 0050	. 6250
5⁄6-36 or . 625-36	2A	. 0010	. 6240	. 6185	. 6060	. 6026	. 0034	. 5899	2B	. 595	. 602	. 6070	. 6114	. 0044	. 6250
5%-40 or . 625-40	2A	. 0010	. 6240	. 6189	. 6078	. 6045	. 0033	, 5933	2B	. 598	. 604	. 6088	. 6131	. 0043	. 6250
3/4-14 or . 750-14	2A	. 0015	. 7485	. 7382	. 7021	. 6970	. 0051	. 6609	2B	. 673	. 688	. 7036	. 7103	. 0067	. 7500
3/4-18 or . 750-18	2A	. 0014	. 7486	. 7399	. 7125	. 7079	. 0046	. 6804	2B	. 690	. 703	. 7139	. 7199	. 0060	. 7500
34-24 or . 750-24	2A	. 0012	. 7488	. 7416	. 7217	. 7176	. 0041	. 6977	2B	. 705	. 715	. 7229	. 7282	. 0053	. 7500
									-					h	-

Table IV.12.—Selected combinations, Unified special screw threads, UNS—Continued

				Exte	rnal •							Internal a			
Nominal size and threads per inch	Class	Allow- ance	Major d	iameter	Pit	ch diame	ter	c Minor	Class	Minor d	iameter	Pit	ch diame	ter	Major diameter
per men	01000		Max b	Min	Max b	Min	Toler- ance	diam- eter		Min	Max	Min	Max	Toler- ance	Min
1	2	3	4.	5	6	7	8	9	10	11	12	13	14	15	16
34-27 or . 750-27	2A	in. . 0012	in. .7488	in. . 7421	in. . 7247	in. .7208	in. . 0039	in. . 7034	2B	in. .710	in. .719	in. . 7259	in. . 7310	in. . 0051	in. . 7500
³ / ₄ -36 or . 750-36	2A	. 0010	. 7490	. 7435	. 7310	. 7275	. 0035	. 7149	2B	. 720	. 726	. 7320	. 7365	. 0045	. 7500
34-40 or . 750-40	2A	. 0010	. 7490	. 7439	. 7328	. 7294	. 0034	. 7183	2B	. 723	. 729	. 7338	. 7382	. 0044	. 7500
7/4-10 or . 875-10	2A	. 0018	. 8732	. 8603	. 8082	. 8022	. 0060	. 7505	2B	. 767	. 788	. 8100	. 8178	. 0078	. 8750
7/8-18 or . 875-18	2A.	. 0014	. 8736	. 8649	. 8375	. 8329	. 0046	. 8054	2B	. 815	. 828	. 8389	. 8449	. 0060	. 8750
7/8-24 or . 875-24	2A	. 0012	. 8738	. 8666	. 8467	. 8426	. 0041	. 8227	2B	. 830	. 840	. 8479	. 8532	. 0053	. 8750
7/6-27 or . 875-27	2A	. 0012	. 8738	. 8671	. 8497	. 8458	. 0039	. 8284	2B	. 835	. 844	. 8509	. 8560	. 0051	. 8750
78-36 or . 875-36	2A	. 0010	. 8740	. 8685	, 8560	. 8525	. 0035	. 8399	2B	. 845	. 852	. 8570	. 8615	. 0045	. 8750
7/6-40 or . 875-40	2A	. 0010	. 8740	. 8689	. 8578	. 8544	. 0034	. 8433	2B	. 848	. 854	. 8588	. 8632	. 0044	. 8750
1-10 or 1, 000-10	2A	. 0018	. 9982	. 9853	. 9332	. 9270	. 0062	. 8755	2B	. 892	. 913	. 9350	. 9430	. 0080	1.0000
1-14 or 1. 000-14	1A 2A 3A	. 0017 . 0017 . 0000	. 9983 . 9983 1. 0000	. 9828 . 9880 . 9897	. 9519 . 9519 . 9536	. 9435 . 9463 . 9494	. 0084 . 0056 . 0042	. 9107 . 9107 . 9124	1B 2B 3B	. 923 . 923 . 9230	. 938 . 938 . 9315	. 9536 . 9536 . 9536	. 9645 . 9609 . 9590	. 0109 . 0073 . 0054	1. 0000 1. 0000 1. 0000
1-18 or 1. 000-18	2A	. 0014	. 9986	. 9899	. 9625	. 9578	. 0047	. 9304	2B	. 940	. 953	. 9639	. 9701	. 0062	
1-24 or 1. 000-24	2A	. 0013	. 9987	. 9915	. 9716	. 9674	. 0042	. 9476	2B	. 955	. 965	. 9729	. 9784	. 0055	1. 000
1-27 or 1. 000-27	2A	. 0012	. 9988	. 9921	. 9747	. 9707	. 0040	. 9534	2B	. 960	. 969	. 9759	. 9811	. 0052	1.000
1-36 or 1. 000-36	2A	. 0011	. 9989	. 9934	. 9809	. 9773	. 0036	. 9648	2B	. 970	. 976	. 9820	. 9867	. 0047	1.000
1-40 or 1. 000-40	2A	. 0010	. 9990	. 9939	. 9828	. 9793	. 0035	. 9683	2B	. 973	. 979	. 9838	, 9883	. 0045	1.000
11/6-10 or 1. 125-10	2A	. 0018	1. 1232	1. 1103	1. 0582	1.0520	. 0062	1.0005	2B	1. 017	1. 038	1.0600	1.0680	. 0080	1. 125
1½-14 or 1. 125-14	2A	. 0016	1. 1234	1. 1131	1. 0770	1. 0717	. 0053	1. 0358	2B	1. 048	1.064	1.0786	1. 0855	. 0069	1. 125
1½-24 or 1. 125-24	2A	. 0013	1.1237	1. 1165	1.0966	1. 0924	. 0042	1.0726	2B	1. 080	1.090	1.0979	1. 1034	. 0055	1. 125
1½-10 or 1. 250-10	2A	. 0019	1. 2481	1. 2352	1, 1831	1.1768	, 0063	1, 1254	2B	1.142	1. 163	1. 1850	1. 1932	. 0082	1. 250
1½-14 or 1, 250-14	2A	. 0016	1. 2484	1. 2381	1. 2020	1. 1966	. 0054	1. 1608	2B	1. 173	1. 188	1, 2036	1. 2106	. 0070	1. 250
1½-24 or 1. 250-24	2A	. 0013	1. 2487	1. 2415	1. 2216	1. 2173	. 0043	1. 1976	2B	1. 205	1. 215	1. 2229	1. 2285	. 0056	1. 250
1.250-24 13/8-10 or 1.375-10	2A	. 0019	1. 3731	1. 3602	1, 3081	1,3018	, 0063	1. 2504	2B	1. 267	1. 288	1. 3100	1. 3182	.0082	1. 375
13/6-14 or 1, 375-14	2A	. 0016	1. 3734	1, 3631	1. 3270	1, 3216	. 0054	1. 2858	2B	1. 298	1. 314	1. 3286	1.3356	. 0070	1. 375
1.375-14 1.375-24 or 1.375-24	2A	. 0013	1. 3737	1, 3665	1. 3466	1. 3423	. 0043	1, 3226	2B	1.330	1.340	1. 3479	1. 3535	. 0056	1, 3750
1½-10 or 1.500-10	2A	. 0019	1. 4981	1. 4852	1. 4331	1. 4267	. 0064	1. 3754	2B	1. 392	1. 413	1. 4350	1. 4433	. 0083	1. 500
1½-14 or	2A	. 0017	1. 4983	1. 4880	1. 4519	1. 4464	. 0055	1. 4107		1. 423	1. 438	1. 4536	1.4608	. 0072	1. 500
1. 500-14 1½-24 or 1. 500-24	2A	. 0013	1. 4987	1, 4915	1. 4716	1. 4672	. 0044	1. 4476	2B	1. 455	1. 465	1. 4729	1. 4787	. 0058	1. 5000

See footnotes at end of table.

Table IV.12.—Selected combinations, Unified special screw threads, UNS—Continued

	TABLE 14.12. Selected comornations, Onlyted species									Internal s					
Nominal		1		Exte	rnal ¢							Internal •			
size and threads per inch	Class	Allow- ance	Major d	liameter	Pit	tch diame	ter	Minor	Class	Minor d	iameter	Pit	ch diame	ter	Major diameter
per mo			Max b	Min	Max b	Min	Toler- ance	diam- eter		Min	Max	Min	Max	Toler- ance	Min
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
15%-10 or 1. 625-10	2A	in. . 0019	in. 1. 6231	in. 1. 6102	<i>in</i> . 1. 5581	in. 1. 5517	in. .0064	in. 1. 5004	2B	in. 1. 517	in. 1. 538	in. 1. 5600	in. 1. 5683	in. . 0083	in. 1. 6250
15/6-14 or 1. 625-14	2A	. 0017	1. 6233	1. 6130	1. 5769	1. 5714	. 0055	1. 5357	2B	1.548	1. 564	1. 5786	1. 5858	. 0072	1. 6250
15%-24 or 1, 625-24	2A	. 0013	1. 6237	1.6165	1. 5966	1. 5922	. 0044	1. 5726	2B	1. 580	1. 590	1. 5979	1. 6037	. 0058	1. 6250
1¾-10 or 1.750-10	2A	. 0019	1. 7481	1.7352	1. 6831	1. 6766	. 0065	1. 6254	2B	1.642	1. 663	1.6850	1. 6934	. 0084	1. 7500
134-14 or 1. 750-14	2A	. 0017	1. 7483	1. 7380	1, 7019	1. 6963	. 0056	1. 6607	2B	1. 673	1.688	1.7036	1,7109	. 0073	1.7500
134-18 or 1.750-18	2A	. 0015	1. 7485	1. 7398	1.7124	1. 7073	. 0051	1. 6803	2B	1. 690	1. 703	1. 7139	1.7205	. 0066	1. 7500
17/6-10 or 1.875-10	2A	. 0019	1.8731	1.8602	1.8081	1. 8016	. 0065	1.7504	2B	1. 767	1. 788	1.8100	1.8184	. 0084	1. 8750
17/6-14 or 1. 875-14	2A	. 0017	1.8733	1.8630	1. 8269	1.8213	. 0056	1. 7857	2B	1. 798	1.814	1.8286	1. 8359	. 0073	1. 8750
174-18 or 1.875-18	2A	. 0015	1. 8735	1. 8648	1.8374	1. 8323	. 0051	1.8053	2B	1. 815	1. 828	1.8389	1.8455	. 0066	1.8750
2-10 or 2. 000-10	2A	. 0020	1.9980	1.9851	1.9330	1.9265	. 0065	1.8753	2B	1.892	1. 913	1.9350	1.9435	. 0085	2.0000
2-14 or 2. 000-14	2A	.0017	1. 9983	1. 9880	1. 9519	1.9462	. 0057	1.9107	2B	1. 923	1.938	1. 9536	1.9610	.0074	2.0000
2-18 or 2.000-18	2A	. 0015	1. 9985	1.9898	1.9624	1. 9573	. 0051	1.9303	2B	1.940	1.953	1. 9639	1. 9706	. 0067	2.0000
2½6-16 or 2.0625-16	2A 3A	.0016	2, 0609 2, 0625	2.0515 2.0531	2. 0203 2. 0219	2. 0149 2. 0179	.0054	1,9842 1,9858	2B 3B	1. 995 1. 9950	2.009 2.0033	2. 0219 2. 0219	2. 0289 2. 0271	. 0070	2. 0625 2. 0625
2¾6-16 or 2. 1875-16	2A 3A	.0016	2. 1859 2. 1875	2. 1765 2. 1781	2. 1453 2. 1469	2. 1399 2. 1428	.0054	2. 1092 2. 1108	2B 3B	2. 120 2. 1200	2. 134 2. 1283	2. 1469 2. 1469	2. 1539 2. 1521	. 0070	2. 1875 2. 1875
2½-10 or 2. 250-10	2A	. 0020	2. 2480	2. 2351	2. 1830	2. 1765	. 0065	2. 1253	2B	2. 142	2. 163	2.1850	2. 1935	. 0085	2. 2500
2½-14 or 2. 250-14	2A	. 0017	2. 2483	2. 2380	2. 2019	2. 1962	. 0057	2. 1607	2B	2. 173	2. 188	2. 2036	2. 2110	.0074	2, 2500
2½-18 or 2. 250-18	2A	. 0015	2. 2485	2. 2398	2. 2124	2. 2073	. 0051	2. 1803	2B	2. 190	2. 203	2. 2139	2. 2206	. 0067	2.2500
2 ⁵ / ₁₆ -16 or 2. 3125-16	2A 3A	.0017	2. 3108 2. 3125	2. 3014 2. 3031	2. 2702 2. 2719	2. 2647 2. 2678	. 0055	2. 2341 2. 2358	2B 3B	2. 245 2. 2450	2. 259 2. 2533	2. 2719 2. 2719	2. 2791 2. 2773	.0072	2.3125 2.3125
2 ⁷ / ₁₆ -16 or 2. 4375-16	2A 3A	.0017	2. 4358 2. 4375	2. 4264 2. 4281	2.3952 2.3969	2. 3897 2. 3928	. 0055	2. 3591 2. 3608	2B 3B	2. 370 2. 3700	2. 384 2. 3783	2. 3969 2. 3969	2. 4041 2. 4023	. 0072	2. 4375 2. 4375
2½-10 or 2. 500-10	2A	. 0020	2.4980	2. 4851	2, 4330	2. 4263	. 0067	2. 3753	2B	2.392	2.413	2. 4350	2. 4437	.0087	2,5000
2½-14 or 2.500-14	2A	. 0017	2. 4983	2.4880	2. 4519	2. 4461	. 0058	2.4107	2B	2.423	2.438	2. 4536	2. 4612	. 0076	2. 5000
2½-18 or 2. 500-18	2A	. 0016	2. 4984	2. 4897	2. 4623	2.4570	. 0053	2. 4302	2B	2. 440	2. 453	2. 4639	2. 4708	. 0069	2. 5000
2 ³ / ₄ -10 or 2. 750-10	2A	. 0020	2. 7480	2. 7351	2. 6830	2. 6763	.0067	2. 6253	2B	2.642	2. 663	2. 6850	2.6937	.0087	2. 7500
2¾-14 or 2.750-14	2A	. 0017	2.7483	2. 7380	2. 7019	2. 6961	. 0058	2. 6607	2B	2. 673	2. 688	2. 7036	2. 7112	.0076	2.7500
2 ³ ⁄ ₄ -18 or 2. 750-18	2A	.0016	2. 7484	2. 7397	2. 7123	2. 7070	. 0053	2. 6802	2B	2. 690	2.703	2. 7139	2.7208	. 0069	2. 7500
3-10 or 3.000-10	2A	. 0020	2.9980	2. 9851	2. 9330	2. 9262	. 0068	2. 8753	2B	2. 892	2.913	2. 9350	2. 9439	. 0089	3.0000
.3-14 or 3.000-14	2A	.0018	2.9982	2. 9879	2.9518	2. 9459	. 0059	2. 9106	2B	2. 923	2.938	2. 9536	2. 9613	.0077	3.0000
3-18 or 3.000-18	2A	.0016	2. 9984	2. 9897	2.9623	2, 9569	. 0054	2. 9302	2B	2. 940	2. 953	2. 9639	2. 9709	. 0070	3.0000

See footnotes at end of table.

Table IV.12.—Selected combinations, Unified special screw threads, UNS—Continued

				Exte	ernal •							Internal •	,		
Nominal size and threads per inch	Class	Allow- ance	Major d	liameter	Pit	tch diame	ter	e Minor	Class	Minor (diameter	Pit	tch diamet	ter	Major diamete
per mon	O I was		Max b	Min	Max b	Min	Toler- ance	diam- eter	01455	Min	Max	Min	Max	Toler- ance	Min
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
3¼-10 or 3. 250-10	2A	in, .0020	in. 3. 2480	in. 3. 2351	in. 3. 1830	in. 3. 1762	in. . 0068	in. 3. 1253	2B	in. 3. 142	in. 3. 163	in. 3. 1850	in 3. 1939	in. . 0089	in. 3. 250
3½-14 or 3. 250-14	2A	. 0018	3. 2482	3. 2379	3. 2018	3. 1959	. 0059	3. 1606	2B	3. 173	3. 188	3. 2036	3. 2113	. 0077	3. 250
3½-18 or 3. 250-18	2A	. 0016	3. 2484	3. 2397	3. 2123	3. 2069	. 0054	3. 1802	2B	3. 190	3. 203	3. 2139	3. 2209	. 0070	3. 250
3½-10 or 3. 500-10	2A	.0021	3. 4979	3. 4850	3. 4329	3. 4260	. 0069	3. 3752	2B	3. 392	3. 413	3. 4350	3. 4440	. 0090	3. 500
3½-14 or 3. 500-14	2A	. 0018	3.4982	3. 4879	3. 4518	3. 4457	. 0061	3. 4106	2B	3. 423	3. 438	3. 4536	3. 4615	. 0079	3. 500
3½-18 or 3, 500-18	2A	. 0017	3. 4983	3. 4896	3. 4622	3. 4567	. 0055	3. 4301	2B	3. 440	3. 453	3. 4639	3. 4711	. 0072	3. 500
3¾-10 or 3. 750-10	2A	. 0021	3. 7479	3. 7350	3. 6829	3. 6760	. 0069	3. 6252	2B	3. 642	3. 663	3. 6850	3. 6940	. 0090	3. 750
3 ³ / ₄ -14 or 3. 750-14	2A	. 0018	3. 7482	3. 7379	3. 7018	3. 6957	. 0061	3. 6606	2B	3. 673	3. 688	3. 7036	3. 7115	. 0079	3. 750
334-18 or 3.750-18	2A	. 0017	3.7483	3. 7396	3. 7122	3. 7067	. 0055	3. 6801	2B	3. 690	3. 703	3. 7139	3. 7211	. 0072	3. 750
4-10 or 4, 000-10	2A	. 0021	3. 9979	3. 9850	3. 9329	3. 9259	. 0070	3. 8752	2B	3. 892	3. 913	3. 9350	3. 9441	. 0091	4.00
4-14 or 4. 000-14	2A	. 0018	3. 9982	3. 9879	3. 9518	3. 9456	. 0062	3. 9106	2B	3. 923	3. 938	3. 9536	3. 9616	. 0080	4.000
4½-10 or 4.250-10	2A	. 0021	4. 2479	4. 2350	4. 1829	4. 1759	. 0070	4. 1252	2B	4. 142	4. 163	4. 1850	4. 1941	. 0091	4. 25
4½-14 or 4.250-14	2A	. 0018	4. 2482	4. 2379	4. 2018	4. 1956	. 0062	4. 1606	2B	4. 173	4. 188	4. 2036	4. 2116	. 0080	4. 25
4½-10 or 4.500-10	2A	. 0021	4. 4979	4. 4850	4. 4329	4. 4259	. 0070	4. 3752	2B	4. 392	4. 413	4. 4350	4. 4441	. 0091	4. 50
4½-14 or 4.500-14	2A	. 0018	4. 4982	4. 4879	4. 4518	4. 4456	. 0062	4. 4106	2B	4, 423	4. 438	4. 4536	4. 4616	. 0080	4. 50
434-10 or 4.750-10	2A	. 0022	4.7478	4. 7349	4. 6828	4. 6756	. 0072	4. 6251	2B	4. 642	4. 663	4. 6850	4. 6944	. 0094	4. 75
434-14 or 4.750-14	2A	. 0019	4. 7481	4. 7378	4. 7017	4. 6953	. 0064	4. 6605	2B	4. 673	4. 688	4. 7036	4. 7119	. 0083	4. 75
5-10 or 5.000-10	2A	. 0022	4. 9978	4. 9849	4. 9328	4. 9256	. 0072	4. 8751	2B	4. 892	4. 913	4. 9350	4. 9444	. 0094	5.00
5-14 or 5. 000-14	2A	. 0019	4. 9981	4. 9878	4. 9517	4. 9453	. 0064	4. 9105	2B	4. 923	4. 938	4. 9536	4. 9619	. 0083	5. 00
5½-10 or 5. 250-10	2A	. 0022	5. 2478	5. 2349	5. 1828	5. 1756	. 0072	5. 1251	2B	5. 142	5. 163	5. 1850	5. 1944	. 0094	5. 25
5½-14 or 5. 250-14	2A	. 0019	5. 2481	5. 2378	5. 2017	5. 1953	. 0064	5. 1605	2B	5. 173	5. 188	5. 2036	5. 2119	. 0083	5. 25
5½-10 or	2A	. 0022	5. 4978	5. 4849	5. 4328	5. 4256	. 0072	5. 3751	2B	5. 392	5. 413	5. 4350	5. 4444	. 0094	5. 50
5. 500-10 5½-14 or 5. 500-14	2A	. 0019	5. 4981	5. 4878	5. 4517	5. 4453	. 0064	5. 4105	2B	5. 423	5. 438	5. 4536	5. 4619	. 0083	5. 50
5. 500-14 534-10 or 5. 750-10	2A	. 0022	5. 7478	5. 7349	5. 6828	5. 6754	. 0074	5. 6251	2B	5. 642	5. 663	5. 6850	5. 6946	. 0096	5. 75
5, 750-10 534-14 or	2A	. 0020	5. 7480	5. 7377	5. 7016	5. 6951	. 0065	5. 6604	2B	5. 673	5. 688	5. 7036	5. 7121	. 0085	5. 75
5. 750-14 6-10 or	2A	. 0022	5, 9978	5, 9849	5. 9328	5. 9254	. 0074	5. 8751	2B	5. 892	5. 913	5. 9350	5. 9446	. 0096	6. 00
6. 000-10 6-14 or	2A	. 0020	5. 9980	5, 9877	5. 9516	5, 9451	. 0065	5. 9104	2B	5. 923	5. 938	5. 9536	5. 9621	. 0085	6.00

Regarding combinations of thread classes, see par. 1, p. 18, Part I.
 For class 2A threads having an additive finish the maximum is increased to the basic sizc. See par. 2, p. 23, Part I and par. 4, p. 16 in this Supplement.
 See fig. III.1, p. 2 and III.1, p. 24 and 25, Part I.
 The 1-14 or 1,000-14 size was formerly NF. The tolerances and allowances for this size are based on one diameter length of engagement.

p. 100, footnote 9: Substitute the following for the first sentence in the footnote:

"This section is in substantial agreement with American Standards Association publication ASA B1.10, "Unified Miniature Screw Threads," which is published by the ASME, 345 East 47th Street, New York 17, N.Y. The latest revision should be consulted when referring to this ASA document."

pp. 100-107, section V: Wherever appearing, change "National Miniature" to "Unified Miniature".

pp. 104 and 105, tables V.2 and V.3: Revise size designations in column 1 by changing "NM" to "UNM" and by specifying the size in millimeters. The designations will then read:

.30 UNM	$.55 \mathrm{UNM}$	$1.00 \mathrm{UNM}$
.35 UNM	$.60 \mathrm{UNM}$	$1.10 \mathrm{UNM}$
.40 UNM	.70 UNM	$1.20 \mathrm{UNM}$
.45 UNM	.80 UNM	1.40 UNM
.50 UNM	.90 UNM	

p. 105, 5. Thread Designations: Change "NM" to "UNM" in line 5; "80 NM" to ".80 UNM" (two places).

p. 107, figure V.4: Delete and insert the following:

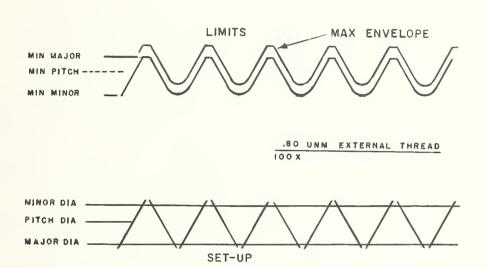


Figure V.4.—Suggested chart for projection inspection of external Unified Miniature threads,

p. 108, (2) Plain cylindrical plug acceptance check gages: Revise to read:

"(2) Plain cylindrical plug acceptance check gages.—GO and NOT GO plain cylindrical plug acceptance check gages are required to check the minor diameter limits of thread ring gages of the smaller sizes, after the gage has been properly set to the thread setting plug gage. Standard measuring equipment is usually employed in lieu of plain cylindrical plug gages for minor diameters larger than ¾ in."

p. 108, 3. Limit Gages: Revise to read:

"3. Limit Gages.-Limit gages are of two categories, namely (1) maximum-material-limit gages, designated "GO" gages and (2) minimum-

"12a "HI" and "LO" gages were previously shown in H28 as "Not go" gages. By this supplement, "Not go" is not being changed to "HI" and "LO" every place in Handbook H28 where it should be changed. However, in paragraphs pertaining to gage marking, changes to "HI" and "LO", where applicable, are being specified."

material-limit gages, designated low limit, "LO", gages for functional diameter of external threads and high limit, "HI", gages for internal threads. Single element gages for class 3A external threads continue to be designated "NOT GO"."

p. 109, 2. Removal of Sharp End Threads: Revise third sentence, starting in line 8, to read:

"On thread ring gages of ½ in. in nominal size or smaller, or of 20 threads per inch and finer, and on all thread plug gages and setting plug gages of 28 threads per inch and finer, a 60° chamfer from the axis of the gage is permitted in lieu of removal of the partial thread."

p. 109, 3. Chip Grooves in "GO" Thread Plug Gages: Revise next to last sentence in col. 2 to read:

"The widths recommended for chip grooves are as follows:

Nominal djameter	Chip groove width		
	Max	Min	
in. No. 8 (.164) and smaller Over No. 8 (.164) to No. 12 (.216), inclusive Over No. 12 (.216) to 3/8(.375), inclusive Over 3/8(.375) to 1/2(.500), inclusive Over 1/2(.500) to 1/1(.000), inclusive Over 1/2(.500) to 1/4(1.750), inclusive	in. No chip 0.036 .052 .067 .083 .130 .193	in. 0 groove 0.026 0.42 0.057 0.73 120 1.183"	

p. 110, figure VI.I: In upper right hand portion, change "NOT GO PLUG GAGE" to "HI PLUG GAGE". In lower right hand portion, change "NOT GO RING GAGE" to "LO RING GAGE".

p. 112, figures VI.2 and VI.3: Change "NOT GO" to "LO".

p. 113, table VI.1: Change column headings as follows:

Column numbers reads: read:
6, 7, and 8 Not go LO, classes 1A and 2A

NOT GO, class 3A

14, 15, and 16 Not go HI

p. 113, table VI.1: Add the following designation in col. 11: "8UN-2A."

p. 114, table VI.2: Change column headings as follows:

Column Heading now Heading should numbers reads: read: 4, 5, and 6 Plug for Go Plug for GO thread gage 7, 8, 9, and 10 Plug for Not Plug for LO or NOT GO thread go. gage 11 and 12 Plug for Go Plug for GO thread gage Plug for LO or NOT GO thread 13, 14, and 15 Plug for Not go gage

p. 116, (d) MARKING OF GAGES (to 4. GAGE TOLERANCES AND WEAR ALLOWANCES): Revise to read:

"(d) MARKING OF GAGES

"Each gage shall be plainly and permanently marked with the minimum marking essential for positive identification. In the cases of thread plug and thread setting plug gages it may be desirable to identify both, the gaging element and the handle. Recommended marking practices are as follows: (The nominal size is to be specified in accordance with paragraph 1, Basic method of designating, on p. 17 of this Supplement.)

"1. Thread Plug Gages—The GO thread plug gage members are common to all classes of threads, both standard and special, and are to be identified as shown in the following example:

Nominal size
Threads per inch
.250–20UNC GO PD .2175

The HI thread plug gage members are to be identified as follows:

.250-20UNC-2B HI PD .2223

"2. Plain Plug Gages for Minor Diameter—The GO plain plug gage members for Unified and American National threads are common to the Unified and American National classes of threads, respectively, and are to be identified by GO and the minor diameters as follows:

GO .1960

The NOT GO plain plug gage members are to be identified by NOT GO and the minor diameter as follows:

NOT GO .2067

"3. THREAD RING OR SNAP GAGES AND SETTING PLUG GAGES THEREFOR—The GO thread ring gages or snap gages and applicable setting plug gage members are to be identified as follows:

Class 1: .250–20NC–1 GO PD .2160 Classes 1A, 2A: .250–20UNC–1A, 2A GO PD .21 Classes 2, 3, 3A: .250–20UNC GO PD .2175

Gages for classes 2, 3, and 3A are basic. The LO thread ring gages or snap gages and applicable setting plug gage members are to be identified as follows:

.250-20UNC-2A LO PD .2127

"4. Plain Ring Gages for Major Diameter—
The GO plain ring gage members are to be identified by GO and the major diameter as follows:

GO .1960

The NOT GO plain ring gage members are to be identified by NOT GO and the major diameter as follows:

NOT GO .2408

"5. Plain Plug Acceptance Check Gages— The plain plug acceptance check gages for GO thread ring gages are to be identified as follows: GO ACCEPT CHK FOR GO THD RING

MINOR DIA___

NG ACCEPT CHK FOR GO THD RING MINOR DIA___

The plain plug acceptance check gages for LO thread ring gages are to be identified as follows:
GO ACCEPT CHK FOR LO THD RING

MINOR DIA____ NG ACCEPT CHK FOR LO THD RING MINOR DIA____"

p. 117, 1. Standard Tolerance Classes: Revise to read:

"1. STANDARD TOLERANCE CLASSES.—Standard tolerances for thread plug and ring gages and thread setting plugs are of two classes:

(1) W tolerances, shown in table VI.6, Part I, which represent the highest commercial grade of accuracy or workmanship and which are required

especially for truncated setting plugs and

(2) X tolerances, shown in table VI.7, Part I, which are larger than W tolerances and are an economical compromise among such factors as gage cost, amount of product tolerance consumed by gage tolerances, and possible observational errors in the measurement of gages with generally available measuring equipment. 1817

p. 117, (b) Tolerances on lead: Revise to read:

"(b) Tolerances on lead.—Tolerances on lead (pitch and helix) are specified as an allowable variation between any two threads not farther apart than the length of the standard gage, shown in CS8, Gage Blanks (see footnote 12, p. 108, Part I), except that in the case of setting plugs, the length shall be that of the thread in the mating ring gage or 9 pitches, whichever is smaller.

"The tolerance on lead establishes the width of a zone, measured parallel to the axis of the thread, within which the actual helical path must lie

for the entire length of the thread.

"All thread gage members will be inspected for total lead deviation (cumulative effect of progressive and erratic deviations). Measurements will be taken from a fixed reference point located at the start of the first full thread to a sufficient number of positions along the entire helix to detect all types of lead deviations which may be present. The amount that these positions deviate from their basic (theoretical) positions will be recorded with due respect to sign. The greatest deviation in each direction (+ and -) will be selected and the sum of their values, disregarding sign, shall not exceed the specified tolerance on lead value. The greatest lead deviation is the maximum deviation from nominal lead only when the lead of every portion of the screw thread is either long or short. When the lead of some portions of a thread is long and that of others is short the maximum deviation in lead is the sum of the maximum positive and maximum negative deviations without regard to sign. Since the lead tolerance may apply to the sum of a positive and a negative lead deviation the specification of lead tolerance as a \pm value may be very confusing. Therefore it is recommended that the + sign be removed from all lead tolerances. 192

"On truncated setting plugs, the sign of any lead deviation present shall be the same on the full-form portion and the truncated portion, and such deviation shall be uniform within 0.0001 in. over any portion equivalent to the length of the

thread ring gage."

p. 118, (d) Tolerances not cumulative: Revise to read:

"(d) Interpretation of tolerances.—Tolerances on lead, flank angle, and pitch diameter are deviations which may be taken independently for each of these elements and may be taken to the full extent allowed by the respective tabulated tolerances. The tabulated tolerance on any one element must not be exceeded even though deviations in the other two elements are smaller than the respective tabulated tolerances."

p. 118, 1. Acceptability of threads: Revise to read:

"1. Dimensional Acceptability of Threads.—General practice as to the dimensional acceptability of threads shall be based on the interpretations of pitch diameter limits of size in paragraph (c), p. 16 in this Supplement and the following specifications of gages and gaging

practices:

"(a) At maximum-material limits ^{19b}—For referee purposes, the dimensional acceptability of threads at the maximum-material limits shall be based on gaging with "go" thread plug and ring gages conforming as closely as practicable to the limits of size of the thread and to the thread form and length specified for such gages. (See par. 3(a), Maximum-metal or "go" gages, p. 108, Part I.)

"(b) At minimum-material limits ^{19b}—Unless otherwise specified on the drawing or procurement document, dimensional acceptability at the minimum-material pitch-diameter limits shall be based

on the following accepted practices:

"(1) Functional (virtual) diameter gaging practice.—Functional (virtual) diameter gaging practice, involving the use of thread plug gages and thread ring gages, conforming as closely as practicable to the limits of size of the thread and to the thread form and lengths specified in section VI for such gages, is specified for the minimum-material limits of classes 1A and 2A external threads, and classes 1B, 2B, and 3B internal threads.

"(2) Single element gaging practice.—Single element gaging practice, involving the use of thread snap gages or indicating type gages having thread form in accordance with section VI, or its equivalent, engaging the thread over a length of two pitches, is specified for the minimum-material limits of class 3A external threads."

p. 118, (a) "Go" and "not go" thread gages: Revise to read:

"(a) GO, HI, and LO thread gages.—It is recommended that W tolerances be applied to

[&]quot;19a It has been customary in the past to specify tolerances on lead as plus or minus (\pm) values. It should be noted that the omission of the plus and minus does not change the total tolerance."

[&]quot;19b External and internal threads larger than 6 in, nominal diameter present additional problems for technical and economical reasons. It is recommended that acceptance of these be alternatively based on measurement of the thread elements. A clear understanding of requirements and method of gaging should be reached between supplier and consumer."

GO, HI, and LO inspection and working thread gages for class 4. X tolerances are recommended as applicable to all inspection and working thread gages for classes 1, 1A, 1AR, 1B, 2, 2A, 2B, 3, 3A, and 3B."

p. 119: Add the following sentence before "After" in fourth line from bottom of column one:

"Care should be taken to assure that there is no lateral displacement of the sectors comprising the ring gage that would produce a lead deviation beyond the prescribed tolerance zone."

p. 117, table VI.6: Delete the following from footnote 1:

"omitting one full thread at each end of the gage."

p. 118, table VI.7: Delete the following from footnote 1:

"omitting one full thread at each end of the gage."

Delete the following footnote:

"Note.—When a wear allowance is wanted on "go" gages, it is recommended that the X pitch diameter tolerance be divided, one-half for wear and one-half for tolerance."

p. 119, table VI.8: Delete this table.

p. 127, table 1.1: In col. 9 for 6, 5, $4\frac{1}{2}$ tpi revise values to read .07217, .08660, and .09623.

p. 144, table 1.13: For $2\%_6$ size, change external thread max class 2 pitch diameter from 3.3969 to 2.3969.

pp. 186, 193; appendix 3: Whenever appearing, change "National Miniature" to "Unified Miniature".

p. 188, table 3.1: For 1% in. thread size, 8 threads per inch, change values in columns 8 and 11 from 1.498 to 1.503, change value in column 9 from 1.494 to 1.496.

p. 195, table 4.1: For 30 threads per inch, change value in col. 5 from .01924 to .01925; for 16 threads per inch, change value in col. 4 from .054129 to .054127.

p. 195: Revise 12th line from bottom of second column by adding "permanent" before "deformation".

p. 196, table 4.2: In col. 1, change "0.01924" to "0.01925".

p. 197: Add the following at the end of section 5:

"When the value of the term

$$\left(\frac{w \tan^2 \lambda' \cos \alpha \cot \alpha}{2}\right)$$

exceeds 0.00015 in., the following pitch diameter formula should be used:

$$E=M_w-(C+c)$$

Tabular values for $(C+c)_1$ for a 1-in. axial pitch screw for 60° threads are given in table 4.3 in this Supplement which values should be divided by the threads per inch for a given case. (See Appendix 13, Part III, for further details.)"

Add the following table:

Table 4.3—Best wire diameters and constants for large lead angles, 1-in. axial pitch 60° threads

	TABLE 1.0				1	1	7		
Lead	1-start t	hreads	2-start	hreads	Lead	2-start t	hreads	3-start t	hreads
angle, λ	w_1	(C+c) ₁	w_1	(C+c) ₁	angle, λ	w_1	(C+c) ₁	w_1	(C+c) ₁
1	2	3	4	5	1	4	5	6	7
deg 5. 0 5. 1 5. 2 5. 3 5. 4	in. 0.57493 .57483 .57474 .57465 .57456	in. 0.86181 .86165 .86149 .86133 .86117	in. 0. 57477 57467 57456 57446 57435	in_{\sim} 0.86145 .86127 .86109 .86091 .86072	deg 10. 0 10. 1 10. 2 10. 3 10. 4	in. 0.56767 .56749 .56730 .56711 .56693	in. 0. 84918 . 84887 . 84856 . 84824 . 84793	in. 0.56728 .56709 .56689 .56669 .56649	in. 0.84830 .84797 .84763 .84729 .84695
5. 5	. 57446	. 86100	. 57425	. 86053	10. 5	. 56674	. 84761	. 56629	. 84660
5. 6	. 57436	. 86083	. 57414	. 86034	10. 6	. 56656	. 84729	. 56609	. 84625
5. 7	. 57426	. 86066	. 57403	. 86015	10. 7	. 56637	. 84697	. 56589	. 84589
5. 8	. 57416	. 86049	. 57392	. 85995	10. 8	. 56617	. 84664	. 56568	. 84553
5. 9	. 57406	. 86032	. 57381	. 85976	10. 9	. 56598	. 84631	. 56547	. 84517
6. 0	. 57395	. 86014	. 57369	. 85956	11. 0	. 56578	. 84598	. 56526	. 84481
6. 1	. 57385	. 85996	. 57358	. 85936	11. 1	. 56558	. 84564	. 56506	. 84445
6. 2	. 57374	. 85978	. 57346	. 85915	11. 2	. 56538	. 84530	. 56485	. 84409
6. 3	. 57363	. 85960	. 57333	. 85893	11. 3	. 56518	. 84497	. 56463	. 84372
6. 4	. 57352	. 85942	. 57320	. 85871	11. 4	. 56498	. 84463	. 56441	. 84335
6. 5	. 57341	. 85923	. 57308	. 85850	11. 5	. 56478	. 84429	. 56420	. 84298
6. 6	. 57330	. 85904	. 57295	. 85828	11. 6	. 56457	. 84394	. 56398	. 84260
6. 7	. 57318	. 85885	. 57282	. 85805	11. 7	. 56437	. 84360	. 56375	. 84221
6. 8	. 57307	. 85866	. 57269	. 85782	11. 8	. 56416	. 84325	. 56353	. 84183
6. 9	. 57295	. 85847	. 57256	. 85760	11. 9	. 56396	. 84290	. 56331	. 84145
7. 0	. 57284	. 85828	. 57242	. 85737	12. 0	. 56375	. 84255	. 56308	. 84106
7. 1	. 57272	. 85808	. 57228	. 85713	12. 1	. 56353	. 84219	. 56285	. 84067
7. 2	. 57260	. 85788	. 57215	. 85689	12. 2	. 56332	. 84183	. 56263	. 84028
7. 3	. 57248	. 85768	. 57201	. 85664	12. 3	. 56311	. 84147	. 56240	. 83989
7. 4	. 57236	. 85747	. 57187	. 85640	12. 4	. 56289	. 84111	. 56217	. 83949
7. 5	. 57223	. 85727	. 57173	. 85616	12. 5	. 56267	. 84075	. 56193	. 83908
7. 6	. 57211	. 85706	. 57159	. 85591	12. 6	. 56245	. 84038	. 56170	. 83868
7. 7	. 57198	. 85685	. 57144	. 85566	12. 7	. 56223	. 84001	. 56147	. 83828
7. 8	. 57185	. 85664	. 57129	. 85540	12. 8	. 56201	. 83964	. 56123	. 83787
7. 9	. 57171	. 85642	. 57114	. 85515	12. 9	. 56179	. 83927	. 56099	. 83746
8. 0	. 57158	. 85620	. 57100	. 85490	13. 0	. 56157	. 83890	. 56075	. 83705
8. 1	. 57144	. 85598	. 57085	. 85464	13. 1	. 56135	. 83853	. 56051	. 83664
8. 2	. 57131	. 85576	. 57070	. 85438	13. 2	. 56113	. 83815	. 56027	. 83622
8. 3	. 57117	. 85554	. 57054	. 85411	13. 3	. 56090	. 83777	. 56002	. 83579
8. 4	. 57104	. 85533	. 57038	. 85383	13. 4	. 56067	. 83739	. 55977	. 83537
8. 5	. 57090	. 85511	. 57022	. 85356	13. 5	. 56044	. 83701	. 55952	. 83495
8. 6	. 57076	. 85489	. 57007	. 85329	13. 6	. 56021	. 83662	. 55927	. 83452
8. 7	. 57063	. 85466	. 56991	. 85301	13. 7	. 55997	. 83623	55902	. 83409
8. 8	. 57049	. 85444	. 56974	. 85273	13. 8	. 55974	. 83584	. 55877	. 83366
8. 9	. 57035	. 85421	. 56958	. 85245	13. 9	. 55950	. 83545	. 55852	. 83323
9. 0	. 57021	. 85398	. 56941	. 85217	14. 0	. 55926	. 83506	. 55827	. 83280
9. 1	. 57007	. 85375	. 56924	. 85188	14. 1	. 55903	. 83467	. 55802	. 83237
9. 2	. 56993	. 85352	. 56907	. 85159	14. 2	. 55880	. 83428	. 55776	. 83193
9. 3	. 56978	. 85329	. 56890	85130	14. 3	. 55856	. 83388	. 55750	. 83149
9. 4	. 56964	. 85305	. 56873	. 85100	14. 4	. 55831	. 83347	. 55724	. 83105
9. 5 9. 6 9. 7 9. 8 9. 9 10. 0	. 56949 . 56935 . 56920 . 56905 . 56890 . 56875	. 85282 . 85258 . 85235 . 85211 . 85187 . 85163	. 56856 . 56838 . 56820 . 56803 . 56785	. 85070 . 85040 . 85010 . 84980 84949 . 84918	14. 5 14. 6 14. 7 14. 8 14. 9 15. 0	. 55807 . 55782 . 55757 . 55733 . 55709 . 55684	. 83307 . 83266 . 83225 . 83185 . 83145 . 83104	. 55698 . 55671 . 55645 . 55618 . 55590 . 55563	. 83060 . 83014 . 82969 . 82923 . 82877 . 82831

Table 4.3—Best wire diameters and constants for large lead angles, 1-in. axial pitch 60° threads—Continued

Lead angle, \(\lambda\)	3-start t	hreads	4-start tl	hreads	Lead angle, λ	3-start	threads	4-start t	hreads
Lead angle, A	w_1	(C+c) ₁	w_1	(C+c) ₁		w_1	(C+c) ₁	w_1	(C+c) ₁
1	6	7	8	9	1	6	7	8	9
deg 13. 0 13. 1 13. 2 13. 3 13. 4	in. . 56075 . 56051 . 56027 . 56002 . 55977	in. . 83705 . 83664 . 83622 . 83579 . 83537	in 56033 . 56008 . 55982 . 55956 . 55931	in. . 83609 . 83566 . 83522 . 83477 . 83433	deg 18. 0 18. 1 18. 2 18. 3 18. 4	in 54682 . 54651 . 54619 . 54588 . 54556	in81344 .81291 .81238 .81185 .81132	$in. \\ .54579 \\ .54546 \\ .54513 \\ .54480 \\ .54447$	in81109 .81053 .80997 .80940 .80883
13.5 13.6 13.7 13.8 13.9	. 55952 . 55927 . 55902 . 55877 . 55852	. 83495 . 83452 . 83409 . 83366 . 83323	. 55905 . 55879 . 55853 . 55827 . 55800	. 83388 . 83342 . 83297 . 83252 . 83207	18. 5 18. 6 18. 7 18. 8 18. 9	. 54524 . 54492 . 54459 . 54427 . 54394	. 81078 . 81024 . 80970 . 80916 . 80861	. 54414 . 54380 . 54345 . 54311 . 54277	. 80826 . 80768 . 80710 . 80652 . 80594
14.0 14.1 14.2 14.3 14.4	. 55827 . 55802 . 55776 . 55750 . 55724	. 83280 . 83237 . 83193 . 83149 . 83105	. 55774 . 55747 . 55720 . 55693 . 55666	.83161 .83115 .83068 .83022 .82975	19. 0 19. 1 19. 2 19. 3 19. 4	. 54361 . 54328 . 54295 . 54261 . 54227	. 80805 . 80749 . 80694 . 80638 . 80582	. 54242 . 54208 . 54173 . 54138 . 54103	. 80535 . 80477 . 80418 . 80358 . 80298
14.5 14.6 14.7 14.8 14.9	. 55698 . 55671 . 55645 . 55618 . 55590	. 83060 . 83014 . 82969 . 82923 . 82877	. 55639 . 55611 . 55583 . 55555 . 55527	. 82928 . 82880 . 82831 . 82783 . 82735	19. 5 19. 6 19. 7 19. 8 19. 9	. 54193 . 54160 . 54126 . 54092 . 54058	. 80526 . 80470 . 80414 . 80358 . 80301	. 54067 . 54032 . 53997 . 53961 . 53925	. 80238 . 80178 . 80118 . 80057 . 79997
15. 0 15. 1 15. 2 15. 3 15. 4	. 55563 . 55536 . 55509 . 55481 . 55453	. 82831 . 82784 . 82737 . 82690 . 82643	. 55499 . 55471 . 55442 . 55414 . 55385	. 82687 . 82638 . 82589 . 82540 . 82490	20.3	. 54025		. 53889 . 53852 . 53816 . 53779 . 53743	. 79936 . 79874 . 79812 . 79750 . 79689
15. 5 15. 6 15. 7 15. 8 15. 9	. 55425 . 55397 . 55369 . 55340 . 55312	. 82596 . 82549 . 82501 . 82453 . 82405	. 55356 . 55327 . 55297 . 55268 . 55239	. 82440 . 82390 . 82339 . 82289 . 82238	20. 6 20. 7 20. 8			. 53706 . 53669 . 53632 . 53595 . 53558	. 79627 . 79564 . 79502 . 79440 . 79377
16. 0 16. 1 16. 2 16. 3 16. 4	. 55283 . 55254 . 55225 . 55196 . 55167	. 82356 . 82307 . 82258 . 82209 . 82160	. 55209 . 55179 . 55148 . 55117 . 55087	. 82187 . 82135 . 82083 . 82031 . 81979	21. 1 21. 2 21. 3			. 53521 . 53484 . 53446 . 53408 . 53370	. 79314 . 79251 . 79187 . 79123 . 79059
16.5 16.6 16.7 16.8 16.9	. 55138 . 55109 . 55079 . 55050 . 55020	. 82110 . 82061 . 82011 . 81962 . 81912	. 55057 . 55026 . 54995 . 54964 . 54933	. 81926 . 81873 . 81821 . 81768 . 81715	21. 7 21. 8			. 53332 . 53294 . 53255 . 53217 . 53178	. 78994 . 78930 . 78865 . 78801 . 78736
17. 0 17. 1 17. 2 17. 3 17. 4	. 54990 . 54960 . 54929 . 54898 . 54867	. 81862 . 81811 . 81759 . 81707 . 81655	. 54902 . 54870 . 54839 . 54807 . 54774	. 81661 . 81607 . 81552 . 81497 . 81442	22. 0 22. 1 22. 2 22. 3 22. 4			. 53139 . 53100 . 53061 . 53022 . 52983	.78670 .78604 .78539 .78473 .78406
17. 5 17. 6 17. 7 17. 8 17. 9 18. 0	. 54837 . 54806 . 54775 . 54744 . 54713 . 54682	. 81604 . 81552 . 81500 . 81448 . 81396 . 81344	. 54742 . 54710 . 54677 . 54645 . 54612 . 54579	. 81387 . 81333 . 81277 . 81222 . 81166 . 81109	22, 5 22, 6 22, 7 22, 8 22, 9 23, 0			. 52943 . 52903 . 52863 . 52823 . 52783 . 52743	. 78339 . 78272 . 78205 . 78138 . 78071 . 78004

Note.—This table courtesy of the Van Keuren Co.

p. 201: Revise last two lines of second column to read: "stress area and thread shear area are shown below. These areas are indicated in figure 5.1."

p. 202: Add the following at the top of page 202: 24

"Tensile stress area.—The tensile stress area is the assumed area of an external threaded part that is used for the purpose of computing the tensile strength.

Direct tensile stress.—When parts are subjected only to a direct tensile stress the assumed area applicable to steel parts up to 180,000 psi used

in calculating the ultimate strength is computed from the following formula:

$$A_s = 3.1416 \left(\frac{E}{2} - \frac{3H}{16}\right)^2$$

or

$$A_s = 0.7854(D - 0.9743/n)^2$$

where

E=basic pitch diameter D=basic major diameter

n =threads per inch

for 3H/16, see table III.1, p. 4 of this Supplement.

Tabulated stress areas are listed in the tables on pp. 7-14 of this Supplement and pp. 128-132 of Part I.

 $^{^{24}}$ Column 1 of p. 202 of Part I and the material added to p. 202 by this Supplement, supersede paragraphs 22 and 23 on p. 5 of Part I.

Combined tensile stress.—When parts are subject to a direct tensile stress plus a torsional stress due to tightening the nut or bolt head, it is necessary to consider the combined shear and tensile stresses when calculating the strength of the externally threaded part. It is recommended that the combined stresses be computed on the basis of the section at the minimum minor diameter of the external thread. The direct tensile stress is given by the formulas:

$$S_t = F/A$$

 $A_s = 0.7854[(K_s \min)^2 - d^2]$

where

 A_7 = area in sq in. at the minimum minor diameter.

F=axial load on externally threaded parts in lb

The direct torsional stress is given by the formulas:

$$S_s = T_1/Z_p$$

$$Z_p = 0.1963 \frac{[(K_s \min)^4 - d^4]}{K_s \min}$$

where

T₁=wrench torque transmitted through the threaded section, approximately equal to half of the total wrench torque in lb-in.

 Z_p =polar section modulus in in.³ K_s min=minimum minor diameter of external thread in in.

d=inside diameter of externally threaded part in in.; if part is solid, d=zero.

The combined shear stress in psi is given by the formula:

$$S_s' = \sqrt{\left(\frac{S_t}{2}\right)^2 + (S_s)^2}.$$

The combined tensile stress in psi is given by the formula:

$$S_{t}' = S_{s}' + S_{t}/2$$
.

Having once determined the combined stresses due to a given set of conditions for wrench torque and coefficient of friction, other combined stresses will be directly proportional to the wrench torque.

Thread shear area.—The diameter corresponding to the effective thread shear area will vary with the relative unit tensile strengths of the materials of the internal and external threads.

When the external and internal threads are manufactured from materials of equal unit tensile strength, failure will usually take place simultaneously in both threads at or near a diameter equal to the basic pitch diameter. The shear area (AS) for external and internal threads made of such materials can be computed from the following formula:

$$AS = 3.1416E \frac{L_e}{2}$$

where

E=basic pitch diameter L_e =length of engagement at basic pitch diameter.

When the unit tensile strength of the external thread material greatly exceeds that of the internal thread material, as in the case of a threaded hole in a cast aluminum block mated with a 100,000 psi ultimate strength material bolt, the shear area of the internal thread (AS_n) can be computed from the following formulas:

(1) For simplified calculations that will provide shear areas within about 5 percent of those given by the precise formula shown below, the shear area of the internal thread may be computed as follows:

$$AS_n = 3.1416E \frac{3L_e}{4}$$

where L_e =length of engagement at the basic pitch diameter.

(2) The precise equation for shear area of the internal thread at a diameter equal to the minimum major diameter of the external thread is as follows:

$$AS_n=3.1416nL_eD_s$$
 min

$$\left[\frac{1}{2n} + 0.57735(D_s \min - E_n \max)\right]$$

where

n=number of threads per inch D_s min=minimum major diameter of external
thread

 E_n max=maximum pitch diameter of internal thread

 L_{ϵ} =length of engagement at minimum major diameter of external thread. (Use L_{ϵ} at basic pitch diameter for simplicity; this is conservative.)

When the unit tensile strength of the internal thread material greatly exceeds that of the external thread material, the shear area of the external thread (AS_s) can be computed from the following formulas:

(1) For simplified calculations for diameters 0.250 in. and larger, that will provide shear areas within about 5 percent of those given by the precise formula shown below, the shear area of the external thread may be computed as follows:

$$AS_s = 3.1416E \frac{5L_e}{8}$$

where L_e =length of engagement at the basic pitch diameter.

(2) The precise equation for shear area of the external thread at a diameter equal to the maximum minor diameter of the internal thread is as follows:

$$AS_s = 3.1416nL_eK_n \max$$

$$\left[\frac{1}{2n} + 0.57735(E_s \min - K_n \max)\right]$$

where

 K_n max=maximum minor diameter of internal thread.

 E_s min=minimum pitch diameter of external thread.

p. 202: Substitute the following for the first 5 lines of the second paragraph:

"2. Length of Thread Engagement.—The length of engagement of a threaded unit that will develop maximum strength of an assembly threaded with external and internal threads manufactured from materials of near or equal unit tensile strength may be computed from the following formula, which incorporates the factor "half" relation of unit shearing strength to unit tensile strength:

$$L_e = 4A_s/3.1416E$$

where

$$A_s = 3.1416 \left(\frac{E}{2} - \frac{3H}{16}\right)^2$$

When the unit tensile strength of the external thread materially exceeds that of the internal thread, the required length of engagement to develop maximum strength may be computed from the following formula, which is also based on the shear area being twice the tensile stress area:

$$L_{e} = \frac{2A_{s}}{3.1416nD_{s} \min \left[\frac{1}{2n} + 0.57735(D_{s} \min - E_{n} \max)\right]}$$

Likewise, when the unit tensile strength of the internal thread materially exceeds that of the external thread, the following formula should be used:"

p. 202: Substitute the following for the numerator in the formula on this page:

"
$$2A_s$$
".

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HANDBOOK H28 (1957)

PARTS I, II, & III

PART II CHANGES

(See Reprint Information on p. II of this Supplement)

The following changes should be made in Part II:

p. 7, Substitute the following for lines 5, 6, and 7 of col. 2:

"The major and minor diameters vary with the pitch diameter, as the American Standard pipe thread form is maintained within the truncation tolerances shown in table VII.1, p. 4, Part II."

p. 7, table VII.4: Change min minor dia for $\frac{1}{6}$ in. size from 0.342 to 0.340, for $\frac{1}{6}$ in. size from 0.440 to 0.442.

p. 19, col. 1, line 11: Delete "minimum."

p. 19, col. 2, par. 1: Revise to read:

"1. Manufacturing Tolerance on Product.—The maximum allowable variation in the

Dryseal Standard (NPTF) commercial product is 1 turn large or 1 turn small from the gaging notch on the plug and the gaging face of the ring when gages are screwed up firmly by hand on or in the product. For other types of Dryseal threads smaller tolerances are specified as indicated in tables VIII.14, VIII.20, and VIII.21. Proper allowance shall be made for any variation of the gage from basic dimensions."

p. 19, table VIII.1: After "thread" in column 5 insert reference to footnote "b." Insert footnote "b" to read:

"b Length of effective thread is L_2 , L_2 Short, L_1+L_3 , or L_1 Short+ L_3 , as the case may he."

Also, in column 5 delete ".0040," leaving the reference to footnote "a."

p. 20, table VIII.2: Revise the minimum heights of thread in column 4 to read:

 $\begin{array}{c} 0.02341 \\ .03772 \\ .05150 \\ .06226 \\ .09188 \end{array}$

p. 21, table VIII.3: Revise body of table to read:

Table VIII.3.—Recommended limitation of assembly among the various types of standard Dryseal threads 4.8

(Note: This revision does not change the table technically.)

	External	Dryseal thread:	For assembly with internal Dryseal thread:				
Type	Tahle	Description	Туре	Tahle	Description		
1	2	3	4	5	6		
1	V1II.4	NPTF (tapered), ext. thd	1 2 b.d	VIII. 4 VIII. 6	NPTF (tapered), int. thd. PTF-SAE SHORT (tapered), int. thd. NPSF (straight), int. thd.		
2 b,e		PTF-SAE SHORT (tapered), ext. thd.	4 •	VIII. 8 VIII. 8	NPSI (straight), int. thd. NPSI (straight), int. thd. NPSI (straight), int. thd. NPTF (tapered), int. thd.		

Add the following footnote to Table VIII. 3:

"g See table 7.9, p. 109, Part 11, for limitation of assembly with other series Dryseal threads."

p. 21: Revise first paragraph in column 2 to read:

"Dimensional data for these threads are given in table VIII.4, Part II. Limitation of assembly among the various types of Dryseal standard and SAE SHORT threads shown in this section is given in table VIII.3 in this Supplement."

p. 22, table VIII.4: In footnote "b" change "not exceeding one pitch (thread) length." to read "not exceeding one and one-half pitches (threads) length."

p. 22, table VIII.4: Add footnote reference "d" to columns 3, 4, 7–8, and add footnote "d" as follows:

 $\begin{array}{l} \text{``dE}_0 \!=\! D \!-\! (0.05D \!+\! 1.1) \, p \\ E_1 \!=\! E_0 \!+\! 0.0625 L_1 \\ L_2 \!=\! (0.8D \!+\! 6.8) \, p \text{''} \end{array}$

p. 23, table VIII.5: In footnote "b" change "not exceeding one pitch (thread) length." to read "not exceeding one and one-half pitches (threads) length."

p. 23, table VIII.5: Add footnote reference "d" to columns 3, 8–9, and add footnote "d" as follows:

"d E_0 short=D-(0.05D+1.037)p L_2 short=(0.8D+5.8)p"

p. 24, table VIII.6: Add footnote reference "c" to column 3 and add footnote "c" as follows:

"c E_1 short= E_0 short + 0.0625 L_1 short."

p. 26: In last paragraph of column 1, line 2, add "deviation" between "diameter" and "multiplied".

p. 27, table VIII.10: Revise columns 10 and 11 to read:

Nominal pipe	Tolerance on major diameter	Tolerance on minor diameter
	Plugs	Rings
1	10	11
in. 10. 10. 10. 10. 10. 10. 10. 1	in. 0.0019 0019 0028 0028 0036 0043 0043 0043 0043 0043	in. + 0.0019 .0029 .0028 .0036 .0036 .0043 .0045 .0045 .0045 .0045 .0045 .0045 .005 .00

p. 27: In sentence preceding paragraph (a), change "checked with plain plug gages." to read "checked with plain cylindrical plug gages."

p. 29: In first paragraph of column 1, revise last three lines to read:

"chamfer cone, i.e., approximately ½ pitch measured axially, from the point of last scratch on chamfer cone toward the opposite end of the fitting."

p. 33, table VIII.17: Change heading in column 6 to read:

" L_1+3 threads, (L_1+L_3) "

Change values in tables as follows:

Page	Table	Size	Column	From	То
31	VIII. 15	3/8-18	13	. 58712	. 58612
34	VIII. 18	3/8-18	8	. 58712	. 58612
36	VIII. 20	11/2-111/2	9	1. 82778	1. 82777

p. 76, table IX.5: Omit values in columns 10 to 16, inclusive, for \(\frac{4}{-14}\)NGT(C1)-2, -3, and -4 sizes.

p. 78, 4. SAFETY DEVICE THREADS: Revise to read:

"4. SAFETY DEVICE THREADS

The safety devices on high pressure gas cylinder valves shall be provided with right hand threads of the Unified form, 19 threads per inch. The minimum length of engagement shall be ½ in. The thread dimensions shall be as follows:

	Boss (exter	nal thread)	Cap (internal thread)			
Major diameter Pitch diameter Minor diameter	Max in. 0.6500 .6157 .5852	Min in. 0.6416 .6124	Min in. 0.6500 .6157 .5929	in. 0.6200 .6008		

The safety device threads shall be designated as follows:

Boss (external thread): .650-19 UNS-3A MAJOR DIA .6500-.6416 PD .6157-.6124

Cap (internal thread): .650-19 UNS-3B MINOR DIA .5929-.6008 PD .6157-.6200"

p. 79, table IX.6: Add "(external threads)" to table title.

Change values as follows:

Value	Column	From	То
D _(8-p)	11	1. 1417	1. 1260
	2	. 3315	. 3339
K ₀	$\frac{11}{2}$. 8824	. 9234
K _(8-p)		. 3 544	. 3567
K(8~p) H	11 2 11	. 9771 . 2912 . 5208	1.0024 .2544 .3184
M	2	. 6564	. 6196
M	11	1. 1524	

In column 1, change "P" to "p, pitch", "H" to "H, ref", and "M" to "M, ref".

Change values for p, pitch (formerly P) as follows:

.0370 values to .03704, .0556 values to .05556, .0714 values to .07143, and .0870 values to .08696.

p. 79, table IX. 7:

Add "(internal threads)" to table title.

Change value for $D_{(8-p)}$ in column 11 from 1.1417 to 1.1260,

Change value for K₃ in column 11 from .8556 to .8856.

Change value for L_1+L_3 in column 11 from .5714 to .7030.

In col. 1, change "P" to "p, pitch", "A" to "A, ref", and "B" to "B, ref".

Change values for p, pitch (formerly P) as follows:

.0370 value to .03704, .0556 values to .05556,

.0714 values to .07143, and .0870 values to .08696.

Values in columns 8, 9, and 10 are to be deleted since these values are not applicable to internal threads. (Table headings for these columns are to remain.)

p. 93, table X.1: Revise note a to read:

"Data on the $4\text{-}6\mathrm{NH}(\mathrm{SPL})$ thread are included since this thread is used extensively aboard ship by the Navy Department."

p. 103, figure 7.1: Replace present figure with the following:

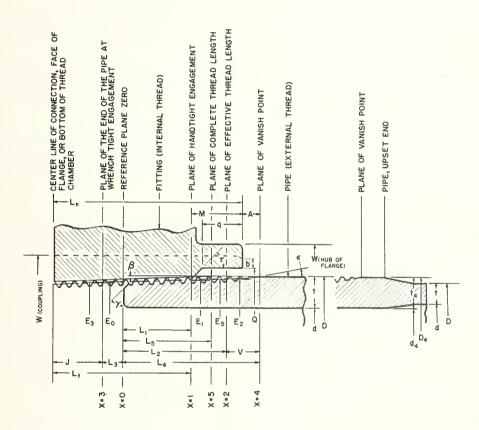


FIGURE 7.1—Pipe thread symbols.

- p. 104, table 7.3: In column 4, change 11 % to 11 %₂. For 3 4 in. nominal pipe size, in column 4, show values as 15 %₄ $-^{a}$.922."
- p. 105: Add the following sentence after the sentence ending in line 11 of the second column:

"They are also published in American Standards ASA C80.1–1959 Rigid Steel Conduit, Zinc Coated and C80.2–1959 Rigid Steel Conduit, Enameled."

- p. 107, table 7.8: In column 7 (4 turns small) add .47774 for ¼ size. In columns 12 and 13 for ¾ size change .99887 to .98887.
- p. 109, table 7.9: In table title, change "Interchangeability between" to "Recommended limitation of assembly among".
- p. 109, table 7.10: In footnote "a" change

"not exceeding one pitch (thread) length." to "not exceeding one and one-half pitches (threads) length."

- p. 109: In line 4 of second column, change "D=0.8625p" to "D=0.0625p".
- p. 110, table 7.11: In footnote "b" change

"not exceeding one pitch (thread) length." to "not exceeding one and one-half pitches (threads) length."

- p. 110: Revise subsection 9 to read as follows:
- "9. SUPERSEDED GAGE DIMENSIONS AND GAGING PRACTICE FOR 1/8 AND 1/4 SIZE DRY-SEAL PIPE THREADS

"In this standard, the L_1 dimensions for the $\frac{1}{4}$ -27 and $\frac{1}{4}$ -18 sizes were revised to correct for a

disproportionate number of threads for hand engagement. The L_1 hand engagement dimensions affecting gages in tables VII.2, VII.9, VIII.15, VIII.16, and VIII.17 were revised to agree with the product dimensions for future gage procurement.

"Therefore, it should be noted that where basicnotch thread gages having superseded dimensions (see table 7.12) are being used for gaging the ½-27 and ½-18 sizes, the formerly observed deviations from specified gaging practice should be

applied as follows:

"Internal threads gaged by the Position Method should be ½ turn smaller for the ½-27 size and ½ turn larger for the ½-18 size than the specified PD gaging steps.

"External threads gaged by the Turns Engagement Method should be ½ turn greater for the ½-27 size and ½ turn less for the ½-18 size than the basic turns specified.

"Table 7.12 lists the dimensions related to the superseded L_1 dimensions of 0.1800 for the $\frac{1}{8}$ -27 size and 0.2000 for the $\frac{1}{4}$ -18 size."

- p. 110: Delete footnote 13.
- p. 111, table 7.12: In title, change "Dryseal dimensions derived from" to "Dimensions related to".
- p. 116: Revise first part of last paragraph to read:

"In some instances it may appear to be feasible to make cross connections with the American National standard thread." However, where there are differences"

p. 116: Add following footnote at bottom of col. 1:

"14 See footnote 10, p. 91, part II."

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PARTS I, II, & III

PART III CHANGES

(See Reprint Information on p. II of this Supplement)

The following changes should be made in Part III.

p. 14, table XII.12: In last column (5"D, 2 tpi) make following changes:

Internal threads:

Classes 5C and 6C, Change 4.4963 to 4.9463 major dia. min

Class 5C, major dia, Change 4.5041 to 4.9541

Class 6C, major dia, Change 4.5008 to 4.9508 max

- p. 15, SNAP GAGE. (c) Minor diameter: Revise to read:
- "(c) Minor diameter.—The minor diameter of the gage shall be computed by using the formula: basic minor diameter plus p/4, with the tolerance (table XII.13, col. 4) applied plus. If the value for minimum gage minor diameter thus determined is greater than the minimum pitch diameter of the external thread, the minimum minor diameter of the gage shall be taken as equal to the minimum pitch diameter of the external thread."
- p. 20: In Notation under figure XIII.1, in each of last two lines, change second "=" to "-".
- p. 44, paragraph 2. Thread Form: Revise to read:
- "2. Thread Form.—The thread form shall be the Unified form of thread profile as specified in section III, part I."
- p. 33: Revise first paragraph on page by transferring to end of first paragraph part of paragraph beginning with "However", line 11, and ending with "used.", line 21.
- p. 44, paragraph 4. Thread Size: Revise to read:

"4. Thread Size and Designation.—The basic major diameters for these threads are shown in tables XVIII.2 and XVIII.3.

These threads are designated as shown in the following example:

.5906-36 UNS-2A MAJOR DIA .5896-.5841 PD .5716-.5682

Limits of size are calculated from the basic major dia, .5906, and threads per inch, 36, as shown in section IV of part I. The limits of size shown are for threads with no additive finish. If an additive finish is applied to the threads, the maximum major and maximum pitch diameters may be increased by the class 2A allowance. Such threads shall be gaged with basic-size GO gages to insure that the threads do not exceed the maximum limits for class 3A."

- p. 45, paragraph 2. Thread (lines 6 to 11 of column 1): Revise to read:
- "2. Thread.—The thread shall have 50 threads per inch. The thread dimensions are shown on figures XVIII.8 and XVIII.9."
- p. 45, paragraph 2. Thread (lines 7 to 10 from bottom of col. 1): Revise to read:
- "2. Thread.—The thread shall be 5-44 UNF-2A/2B in accordance with part I. The thread lengths are shown in figures XVIII.10 and XVIII.11."
- p. 52, column 2: Revise lines 8 and 9 from bottom of column to read: "of effective length, L_{ϵ} (see fig. 12.1)."
- p. 59: Revise formula (20) to read:

$$\begin{split} E = & M_w + \frac{p}{\tan \alpha_1 + \tan \alpha_2} \\ & - w \left(1 + \operatorname{cosec} \frac{\alpha_1 + \alpha_2}{2} \cos \frac{\alpha_1 - \alpha_2}{2} \right) - c. \end{split}$$

p. 60, column 1: In line 15 from bottom of column change "on error" to "an error".



U.S. DEPARTMENT OF COMMERCE

Luther H. Hodges, Secretary

ment. Nucleonic Instrumentation. Neutron Physics.

NATIONAL BUREAU OF STANDARDS

A. V. Astin, Director



THE NATIONAL BUREAU OF STANDARDS

The scope of activities of the National Bureau of Standards at its major laboratories in Washington, D.C., and Boulder, Colorado, is suggested in the following listing of the divisions and sections engaged in technical work. In general, each section carries out specialized research, development, and engineering in the field indicated by its title. A brief description of the activities, and of the resultant publications, appears on the inside of the front cover.

WASHINGTON, D.C.

Electricity. Resistance and Reactance. Electrochemistry. Electrical Instruments. Magnetic Measurements. Dielectrics. High Voltage. Absolute Electrical Measurements.

Metrology. Photometry and Colorimetry. Refractometry. Photographic Research. Length. Engineering Metrology. Mass and Scale. Volumetry and Densimetry.

Heat. Temperature Physics. Heat Measurements. Cryogenic Physics. Equation of State. Statistical Physics. Radiation Physics. X-ray. Radioactivity. Radiation Theory. High Energy Radiation. Radiological Equip-

Analytical and Inorganic Chemistry. Pure Substances. Spectrochemistry. Solution Chemistry. Standard Reference Materials. Applied Analytical Research. Crystal Chemistry.

Mechanics. Sound. Pressure and Vacuum. Fluid Mechanics. Engineering Mechanics. Rheology. Combustion Controls.

Polymers. Macromolecules: Synthesis and Structure. Polymer Chemistry. Polymer Physics. Polymer Characterization. Polymer Evaluation and Testing. Applied Polymer Standards and Research. Dental Research.

Metallurgy. Engineering Metallurgy. Microscopy and Diffraction. Metal Reactions. Metal Physics. Electrolysis and Metal Deposition.

Inorganic Solids. Engineering Ceramics. Glass. Solid State Chemistry. Crystal Growth. Physical Properties. Crystallography.

Building Research. Structural Engineering. Fire Research. Mechanical Systems. Organic Building Materials. Codes and Safety Standards. Heat Transfer. Inorganic Building Materials. Metallic Building Materials.

Applied Mathematics. Numerical Analysis. Computation. Statistical Engineering. Mathematical Physics. Operations Research.

Data Processing Systems. Components and Techniques. Computer Technology. Measurements Automation. Engineering Applications. Systems Analysis.

Atomic Physics. Spectroscopy. Infrared Spectroscopy. Far Ultraviolet Physics. Solid State Physics. Electron Physics. Atomic Physics. Plasma Spectroscopy.

Instrumentation. Engineering Electronics. Electron Devices. Electronic Instrumentation. Mechanical Instruments. Basic Instrumentation.

Physical Chemistry. Thermochemistry. Surface Chemistry. Organic Chemistry. Molecular Spectroscopy. Elementary Processes. Mass Spectrometry. Photochemistry and Radiation Chemistry.

Office of Weights and Measures.

BOULDER, COLO.

Cryogenic Engineering Laboratory. Cryogenic Equipment. Cryogenic Processes. Properties of Materials. Cryogenic Technical Services.

CENTRAL RADIO PROPAGATION LABORATORY

Ionosphere Research and Propagation. Low Frequency and Very Low Frequency Research. Ionosphere Research. Prediction Services. Sun-Earth Relationships. Field Engineering. Radio Warning Services. Vertical Soundings Research.

Radio Propagation Engineering. Data Reduction Instrumentation. Radio Noise. Tropospheric Measurements. Tropospheric Analysis. Propagation-Terrain Effects. Radio-Meteorology. Lower Atmosphere Physics.

Radio Systems. Applied Electromagnetic Theory. High Frequency and Very High Frequency Research. Modulation Research. Navigation Systems.

Upper Atmosphere and Space Physics. Upper Atmosphere and Plasma Physics. Ionosphere and Exosphere Scatter. Airglow and Aurora. Ionospheric Radio Astronomy.

RADIO STANDARDS LABORATORY

Radio Physics. Radio Broadcast Service. Radio and Microwave Materials. Atomic Frequency and Time-Interval Standards. Millimeter-Wave Research.

Circuit Standards. High Frequency Etectrical Standards. Microwave Circuit Standards. Electronic Calibration Center.



